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TORONTO MONTREAL WINNIPEC





Alexandra Ware

Figure 1. A Assemble William of Section 1. In Principle the No. 1. In the section to be seen the second terms of the section 1. In the sec

The Standard Socal Company

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No. 3

Canada, Our Native Land

O Canada! our native land thou art!
We sing of thee, and glashness fills our heart.
Thou art a child of Britsin's throne, an Empire vast and free.
We'll fight for King, and native land, and glorious liberty!

God bless our land! God save our King! Thou God of battles, we Thy praises sing.

Thou God of battles, we Thy praises sing.

O Canadal we love thy mountains high:

Thy fields so vast, that reach from sky to sky;
Thy beautoous lakes and waterfalls; thy wondrous majesty!
We'll fight for our inheritance, and glorious liberty!

God save our King! Thou God of battles, we Thy pmises sing. Thou God of battles, we Thy praises sing.

Lot to the work of Empire bend thy power, Thy latent forces, wondraus, sust, supreme! Stand steamch for Britain's great regime! An Empire proud are we, Proud of our King, our country's flag, and glorious liberty! God bies our land!

God save our King! Thou God of battles, we Thy praises sing. Thou God of battles, we Thy praises sing.

From Charles Wesley McCrosses's "Canadian Host Scope."

Winning

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Montreal Toronto



Shoped down and into the emok, his legs hanging clear." -See "Sparke Dellers," Page 46.

MACLEAN'S MAGAZINE

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Canadians Must Learn to Think in Millions!

IN THE DEVELOPING AND PROPLING OF HALF A CONTINENT, THE DOMINION IS CONVEONTED WITH RESPONSIBILITIES AND OPPORTUNITIES AS GREAT AS HAVE EVER BEEN FACED BY ANY NATION IN THE HISTORY OF THE WORLD

By J. Kerr Abbott

When an Dominion Day of this year Canadians contemplate the greatness of their squarry they must think in big figures. Millious are now being spont on great public works. Millianet You, knudseds of them-True, the outley is beny, but have we not often heard that this is Canada's growing time! With the wonderful opportunities have come tremenium remansibilities. In the development of our natural resources. in the assimilation of our fersign population, in the adjustment of differ ences between empiral and labor, and in the retring of a God-fearing and Christian people-in these Canada is confronted with problems as great as have ever faced any country in the bintery of the world. Canadians, indeed, must have vision and corrary and determination. The Deminion Day talk which follows shows why

has obtained authority to spend over deputation which was there to interview \$200,000,000 this year. suggestion of such an appropriation front. The late W. H. Gibbs who a fifteen years and would have made not- few years before had represented one of ple gasp. Away back in the early the Ontarios in the Dominion Parliaseventies when the national outlay ment was a member of the description. was under thirty millions, many of those who serve serious thought to such. House of Commons. (Parliament was

scale of expenditure reached then

THE Dominion Minister of Finance Ottors in courant with a Toronto the Government of that day in regard Two hundred millions! The mere to the preservation of the city's water He was sitting in one of the seats in the things could see nothing but national not in session at the time) and talking bankruptey ahead as a result of the of his experience, when entitled to a sent in that same chamber while Parli-Noor the end of the 'eighties I was in ament was in session.

"Why," he said, "when the old Mackenzie Government got the expenditure on consolidated fund account alone up to twenty-three or twenty-four millions we on the other side throught it a case of what we would have said if they had run it up to thirty-six millions as it is

A CHANGE IN VIEWPOINT.

now,"

That is how a member of the party which is generally credited with looking at a swelling outen with lenient eyes viewed the situation twenty years are It is true conditions and opinious have some old ideas have been altered or wholly eradicated; but, even for thisgrowing time, and after people have become accustomed to think in millious. a budget could to nearly thirty dollarper head is one culculated to give purse.

Of course all the money appropriated will not be execuded, but we may count with reasonable certainty on an outlay of not much, if any less, than \$25 percapita.

But what are we going to do about it? It is not the purpose here to enter into a discussion of the question as to whethor \$200,000,000 is or is not exactly the proper amount to appropriate Neither will any attempt be made to criticize All that is proposed is to look in a broad way at the case as it stands. A GIANT'S TASK.

First, let us ask, what is the position and what are the responsibilities that Fate has placed upon the Canadian nathen? We are assuming the task of populing and developing half a certinent with the population of a petry state to start with. We have about the same population as Belgium, a country that could be hidden away in one corner of Older Outerio, and we are seeking to develop and utilise an empire approaching in extent that of the Car who has 120,000,000 subjects at command

The world has been lost in admiration and wonder at the stupendous task occumulished by the United States in beinging the vast territories of the Republic into subjection. But the work which has been accomplished in the way of material development by the United States is small in comparison with that which is being attempted here. The Americans numbered nearly five times our present population before they becam to seriously address them-

selves to the task of peopling a West which was no greater than is Western Canada. THE DEMOCRATIC INSTINCT. What the Republic has accomplished in the way of assimilating the vast numbers of strangers that have thronged there from all quarters of the world

has been justly prelaimed as an even greater achievement than the material development attained. But in this, main, in the assimilation of alien populations, we are assuming vastly greater obligations than were assumed by our neighbors. We have already received as many immigrants in a year as the United States received in a year up to the time when the population of the Republic had passed the sixty million mark. It is not unlikely that as many strangers will enter our gates this year as the United States received in any one vear up to 1900. Moreover, immigration into the United States was until well on to the 'eighties or 'mineties,

practically confined to British and Ger-

man stock, people accustomed to the du-

crament, while we have, almost from

the beginning, had a heavy admixture of Doukhobors, Italians, Austrians and people of other races who have not had the benefit of generations of experience in democracy. STATE WE SO STOW?

But, let the question be put again, what are we to do? Are we to evade the task that has been placed upon us? Are we to refuse to accept the burdens and responsibilities that on with the rosition in which we are pleced? These burdens and them responsibilities mainly centre around the neceling and develocing of the West. The rock of alera Canada would be a comparatively simple matter. It is the administration havond Lake Superior that constitute

Canada's great undilean. But if we do not assume the solution of that problem what then? This old world is becoming too crowded to permit mry such even as that contained in cerr sea of unbroken plains to remain long mioremied. If we do not make use of the titlent ourselves others will dia it no and use it for themselves. If Canada arrores unable to recet all the obligations connected with her own development, if we cannot name in immigrants and Canadianize them after they are on the contrine seems other notices with greater virility will carry to completion for its benefit the took we shrink from.

And where will Canada be then? If the West should seem to be Coundian. if the country beyond Lake Superior should nos into the hands of either Japan or the United States, how long would the rest of Canada endure?

SUPPOSE YELLOW BACE BAN IT. With a vellow mee controlling our

West we would not wally write with the Republic as a means of rare preservation. With the territory of the United States extended north so as to form a solid block hundreds of miles wide and shotting as off from the Parific by force of oravitation the netty Dominion which remained would inevitably fall into the vastly greater body alongside. For Canada there are but two alter netives. It must either be the ready as-

with the administration of the whole of the vast estate or else the utter abandomment of that entire estate. We would build mileave, we must div carels, we must people the West, and to this end we must throw with the notes to Sleve and Polark and Presion for according to British and German been and we must train all these nescenness in the art of government by the pooble and for the people. This we must do if our

The work is greater than any ever before undertaken by 7,000,000 number

In carrying out the task set for us by Fote we may we certainly shall have to undertake greater works and erroter expenditures than those at present under way. The work of fitting the Welhand Caual to pass the greatest freightery loke harlow will admit now only being nibbled at most be taken up in cornest and rushed to completion. A owned mount he built along the line of the Ottorn to connect the more lakes and the St. Lawrence by dirret route. Two Hadson Bay railways will be requiredone connecting with Toronto and the

other linking Winnings with Canada's grent northern sea. The clay beltforming the hinterland of Oneber and Ontario must be grid-ironed. Not only that, the seas of mountains north of the count lakes will have to be piezeed and intersected by iron highways with a view of making available nalneral wealth yastly menter than that now

We have Insperial proportunities and Imperial duties We untst educate ourselves to think in terms commensurate with these opportunities and duties.

Big Building Devices

MECHANICAL WONDERS AND ENGINEERING FRATS COM-BINE IN THE REARING OF THE MODERN SEYSCRAPER

By John Holt

This article is one of the most interesting of the building series which metals of Mandeau's Manganen have had the pleasure of reading in second his articles, but no factor has present more read-state points that the moisen devices of construction collained in this testies. Just as we have advanced to the age of size in our content in building on we have progressed in the development of models and content in building on when pregressed in the development of models and of the size of the control of the building of the

American friend of mine who bought an old manor-house in Warwickshire desired to put in a new garden door in one of the ground floor mome "I decsay I could do it for ver if ver resaly want to ave it," said the local builder ofter exemining the snot and take ing measure-ments "but it'll be more of a passame-like than a hordinary doorway . . . The wall's eight foot

thick just where

you wante to



adeed feet up. The picture shows the was which the grokes of a steel halfdles jie-

it." At another point the wall was eleven feet thick, but that was at the foot of a tower and included a bit of a buttres; in most places there

a buttress; in most places there was no more than an eggshell of three or four feet of solid limestone between the inhubstants of the

house and the weather.
"Ah!" < a.x the cuthusiast, gazing admiringly at the win-

gasing admiringly at the window embrasures of such a house. "Thuse were the lays when man kn s w ho w to Baild." On the content, it was because of what they did not know about building that these grand old ceatles and wonderful old bousses came into existence. Grand old houses, marvellors walls, fit to enthre the seasolts of the content of the characteristic of the content of the content of the content of the content of were build when

material was cheen

and labor cheaper.

We boild better

best-if you will

The early stages of a big building. Note the size of the great

forgive the paradox—we are neror likely to build anything balf so good. Our days will be the "bad old days" from the viewpoint of the antiquarian a thousand years benee for our cities will be tangled webs of rusty steel, our suburban residences will hardly leave a scound to

mark their sites, still—well, we make prety good buildings all the same.

POSSIBILITIES AND LIMITATIONS.

Never before has building had greater possibilities and fewer limitations. A

very few years ago it was ridiculously limited. Height, span, form were all subject to a thousend restrictions of material Even things that were theoretically nossible were practically out of the question This was rather fortunate architectural teste of the greater part of last contrary It able to work as solidly as in Tudor nificent a scale as in

the present, imprine

what monstrosities



Building a dwelling bosse. This illustrates one of the numerone modern departures from old-families of bricks and new tar, being built collectly of hellow tikes.



Riveners at work. These men climb about from girder to girder with utler furtherstein. A pece between and the bester at the farge world drop \$50 bet.

"teeter" at the frage weed drop 300 for terrible in their size and appearance, would cumber our ettrets.

However, with modesu methods has oome a revival of that myelsrious quality "good taste." Even our factories the being built with une slight receal

Late coing count will now home page to the me old one great unit of components and our here; and our here more fit to look at as well as mere thing better? For within the last few wantse.

First, came improvements in intermoperation and

First, came improvements in transportation and then greater possibilities of using materials brought from a distance that were better then came mechinery to help eko out the limitations of manual labor in the urark of execting a bailding; next, the wifer choice of building cast ince, weoching cast ince, ween the

iron, steel, and



has kept pretty well aleves of the world. Some things, naturally, have been too kej for a young country to tackle, and sagin it is only natural that a growing country should have neglected the quality of permanency—what use is there in building more than a temporary shack when a year may see the need of realesing it with some

In all forms of

building Canada



The "crew" of a big steel skyscrap

a flesh of brick or stone or term cotta

almost before one realizes that the once

imposing five storey buildings they re-

They are freeinating from their size and height, but they are still more fas-

cinating from their very simplicity, for

they are extremely simple. Think of

what a huge tower such as the Tradera

Bank Building in Toronto would have meant in the middle ages. Its building

would have been counted not in days or

even years but in generations; vast

blocks of stone would have been quar-

ried for its bose and its walls, supported by their massive buttresses, would have

risen course by course at mighty cost of

human lebor, each a little mountain, as

nees still had it not been for steel: The

beginning come in the 'fifties when at-

tempts were made to make greater use

of iron in combination with masonry

It is obvious of course that the wall of

a building has to earry considerable

weight; the weight of the roof, of the various floors and their loads and its

own weight. That is why, in primitive

building, an enormously wide base and

We might almost be back in middle

it were of solid stone

place have been torn down.



ten, Ontario, on which seven storers were erected show the original building. years big things have come within Can-

ada's reach and permanency too, and Canada can look the world in the face without blushing for her building massive buttressing was necessary to achievements. T most striking and speciarular development of modern building has, perhans, been in the matter of steel construction. There is something fascinating about the human towering steel stroctures which ere arising in every Canadian city as they have arisen in every city in the United States: sky-

vost buildings de-

cently clothed with



A view of the Senk of Hamilton building as it was originally.

prevent the wall from collapsing under its own strain or buckling under pressure of the various outward "thrusts" The first use of iron in building soes back a long way since bars or stringers of iron were used in the 16th century and earlier to "tie" the walls of a building together and thus counteract the buckling tendency. The real ancestor of the modern steel building however. was the iron column built into the masoney of the well to carry the weight of the various floors and leaving the wall to carry its own weight alone. This was davised in answer to the demand for greater height in buildings and it did allow of a considerable increase in beight but ofter a building had rison a few storeys more than was previously possible the old limitations again on serted themselves; the iron might have gone higher, but the brickwork could not have reached the limit at which it could continue to support its own weight. So by natural evolution the iron col-

omns were made to support the walls as well as the floors and the "derree of limitation" was transferred from masoney to the strongth of iron. Cast iron.



The shricten of a big building nearing wrought iron and eventually steel in-

cressed the limit till to-day the strength of steel gives possibilities that are prac-

> building always seems to me to be more akin' to the primitive tent than to the primitive stone but. It is a twentieth century wigumo, a framework of steel poles over which is home a curtain of mosons rr. When all allowances are made for comparative sixes it is for

The modern steel





The Bank of Hamilton building ready for an edition of

building for that sarily built of local stone or bricks burnt from local clay. With the modern building the materials may. and often do come from the other side of the world. The hig steel buildings comes chiefly from the States, but also from England and from Germany. In far away shops the

girders are rolled

and shaped to de-

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A concrete miner and other machinery. In this case it was pos-

finite shop drawing measurements; in some cases they arrive ready to be fitted together at once; in others they are cut and fitted by some local concern. Most important are the columns, the great uprights on which depends the whole weight of the building and those are made of the

"nofter" grades of tough steel. For the transverse sirders and the strats and stays which hold the building rigid and stable, medium crudes are permissible. steel that is more brittle and not so canposed upon the columns The difficult problems of the work

> evident in the ordered tangle of steel girders into which the spectator stares from his position on the sidewalk. They lie updereround in the denths of the evenvation which has been dug out and ready months hefore the first cirders of the superstructure have peeped above the serround ins hearding. The problem of the skying it together. that is all reduced

to a formula lone



plit an Bubylon was built. Good out-fratituded totice and marker still hold their ground; this shows the first stonges of the creation of the big new General Bragilal in Trounts.



Birchers. The men age helding the various tools used in river-

ago, the problem lies in finding something for the great tower of brick and steel to stand upon. Where there is hed rock within reach there is, of course, no difficulty, but, more often than not, bed rock is inserestible. In this case the panel course is to found the supporting columns on

great masses of concrete the weight of the whole being distributed over a large innumerable. Many steel buildings are area on a huge web of steel "grillage."

The building stands on the more or less ulibrate Bondon flore and without sinking exactly as a man stands by means of snowshore on the soft surface of the more.

In other cases where there is a street deal of soft soil through which water freely percowould be impossible ing safely on "smoreshoes" elaborate easson methods have to be cambleyed. Roughly, the caisson is a huse by its own weight. Inside it, nork the laborers digging out the soil of the pier bole, which is hoisted up a central shaft. They work under "high presenses, for the crisson is filled with compressed air with the object of keep-

ing out the soft soil

and water which otherwise would force itself into the gradually growing executation. Eventually when the mod lover of soil has been negerated and a hard hasis arrived at the great shaft of the existent is filled with coment. A macossion of these make a solid foundation on which the steel superstructure can be reared. But the variations from the usual plan to fit special circumstances are



A hrick building showing muffeldour Modern steel and concrete belidings are, so to speak, their do not need an elaberate canny of yells, their can ar dickling, and

piles; in some cases the expensive plan has been resorted to of actually freezing the liquid mud through which the pier holes had to be sunk, the mud being made hard enough for excavation by being pierced by a remification of little pines through which freezing mixture was run. These problems of foundation apply not to steel buildings alone but to any buildings of great size and weight. Any of these processes may be in

twenty storeys above. Deeper still is the elevator pit for that must go down the same number of storeys as the building rises above it. It is made by means of a steel shaft, sunk easily enough through soil and clay with the aid of a little bit of water washing soil from under it. When it reaches mekshot and sharp edged gravel are poured down and rolled and worked about under the end of the shoft till a hole is cut and secured through. It is into this course of operation in the execuations narrow pit that the shaft of the hy-



Swinging a girder late place. How did the mon tench the pusi-

wason loads of earth and rock come from floor to floor with its ressengers. staggering up the incline into the street. With most of the big Conndian buildings the problem of foundation has been simple enough, though in two or three cases in Montreel the expensive senisson system has had to be used, notably with the new additions to the Windsor station. Naturally the ordin- some central position is one of the prime ary passer-by does not see these ones, requirements. Even before the excuynations since they so far deeper than the tion is made, machinery comes into great pit revealed to the casual glance, play. Very often, for example, a steam which is due out over the whole site pleasth does the work of breaking up and which merely represents the one or the ground and it is becoming the role two, or possibly three or four hasement rather than the exception for a steam storous which belonce the fifteen or shovel to replace the harmon "wore"

of which you ratch glimpses when the draulic elevator descends as it drops

MODERN CONSTRUCTION DEVICES. The basement excavation becomes the site of quite a little factory during the building operations, for machinery has taken the place of most of the hand labor of the past and an engine mom in who were wont to drane themselves nicturesquely along the sidewalk edge during the lunch hour. A steam showl specially designed for compactness is to be brought into play on the excavations for Eaton's hig new building in Toronto -for the first time, it is said, in Canads. Then concrete is mixed by machinery; machinery is necessary for the hoists and the air compressors and in a dozen different ways.

The his steam crane is the rules of the roost. Perched in its convenient central position in the excevation it lifts the first huge girders into place and gradually rises storey by storey with the building which is fitted together around it. The steam crane on the C.P.R. building in Toronto-a good typical ex-lift up to 12 tops and swings hundles of girders up to a couple of hundred feet shows the street level or though they were so many sticks of wood. For a sixteen storey building such as the C.P.R. office it would handle 2,000 or more tons of steel in the course of the work and would then have to deal with a couple of million bricks for the wells When all is finished it comes to pieces and descends from the top of the building it has picked up hit by hit from the ground, ready to get to work on another

one. Here and there in the steel framework chatter the pneumatic riveters. Close to where a new sinder is to be swung into position by the crane, a liftle portable force perches on a platform. It is attended by the "Heater" who feeds it with rivers and sees that they get properly red hot. One by one, as they are needed they are taken from the glowing force by the "Thrower" who torses them accurately to the "Sticker." one of the three men clustered at the end of the great steel beam. "Sticker" thrusts the rivet through the holes awaiting it : instantly the "Bucker-Up" has his heavy "dolly" nushed hard against the glowing head and the "Gun-Man" iams the nozzle of his "min"

over the little red-hot projecting end of

the rivet. Chatter, chatter ones the gun" as the compressed air in its snaky tube jecks the plumeer in the nozzle backwards and forwards two hundred times a second; after a moment the gun is drawn away and the end of the rivet is revealed neatly mushroomed out to correspond with the head upon the other side. As the rivet cools it contracts and draws the two cirders it joins still closer together. Meanwhile the riveter and its crew are at work moon the next one.

After the riveters, come the men who protect the steel from its most dangerous enemies rust and fire. Every girder is very carefully cleaned and scaled and then painted and encased in acbestos, terra cotta or some other material or cement. The last is the common method nowadays since it has been found that cement sticks to smooth steel, protects it shoolntely against rust and minimizes more than other materials the danger of its bockling under the action of heat. All the steel girders and columns have to be covered in some way against the attories of their enemies and the more completely this is done and inflammable material eliminated from the interior fittings, etc., of the huilding, the more fire-proof it is,

Even before the steel work is all riveted together and finished the masons and bricklayers may be at work on the lower storeys. The steel work on I have said, carries the whole weight of the building walls and all so work may be in progress on several storeys simultaneously. Usually the walls are simply brickwork built in the ordinary way from the girders of one floor to meet the girders of the one shove Where there are balconies or comices the girders project for their support and the protruding portion is built on them or hung from them as desired. Terro cotta and artificial stone are coming into more and more favor every year in replacing brick or a "curtoin" with which to fill the interstices of the erect steel skeleton and with both of them it

architecturally. STEEL AND CONCEPTS

The usefulness of steel in building has not beenn and ended with purely steel construction; far from it. It is used in conjunction with brick and stone and almost every other building the same for all types of buildings and

material to a greater or less degree and has proved invaluable in a thoudifferent ways. Its most important development has been its use within the last deende in conjunetion with concrete. Reinforced ning to ennrongiate a pretty big share of the honare of the madern building.

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Reinforced concrete se ony. one knows is simply concrete with steal venally in the form of work, and designed, therefore, to combine the strength and advantages of both

hie buildings

"whot" at the lathing under pressure from a gam. The picture shows a type of metal lath-ing in potent use. these materials After all, when vou come to think of it, the easing of columns of a steel building in concrete for protection against rust and heat is a step towards reinforced concrete and it is not surprising to find the new muterial largely replacing steel nurs and simple in the construction of

is possible to get very excellent effects mance for the spectator in watching a reinforced concrete building going up. but it is fascinating nevertheless since the building operations look so abourdly simple and also since the building has an air of solid permanency from the Foundation problems are practically

> may always be difficult of salution, but once the foundations are well and truly laid a reinforced concrete build. ng can en un storey by storey with astonishing randdity far

more simply and

rapidly even

hailding ennears to build itself up out of the dust Here ere no burse riles of me. tarval stacks of stone, great tiers of beams of any of the preparations one associates with the making of a big

building. Bit hy come to the site in the form of waggon loads of unimpressive looking steel

rods commonplace sacks of cement and mere ordinary sand and erayel Down in the basement are few insignificant looking concrete mixers at work, those curious coneshaped machines which lately have become so familiar Basily the cones revolve and the sand, gravel and cement There is not the same apparent ro- are transmitted into the thick, pasty semi-fluid which will harden into solid an additional storey without any Where the walls are gradually rising. the builders are arranging "forms," the hottomless troughs or moulds into which the concrete is poured. Above the forms project a bristle of ends of

steel, the bars or webbing or whatever form the reinforcement may take which is erected inside the forms ready for the concrete to settle and harden around it. As with the walls so with the supporting columns scattered at proper intervals about the interior of the building : the forms are arranged in a procisely similar way differing only in their thickness and the strength of their rein-Ten days to a storey is a usual allowance of time for erection. On one day

the columns are "poured" and on the next the floors. As each storey "sets" firm and hard the one shove is started. and thus a five or six storey building may arise from its foundations in as little as two months. Often a building is only framed in concrete, exactly as a steel building is framed of steel, the enriain walls being built of brick or other material. But there is a growing tendency to use concrete exclusively for floors wells and everything also and thus to moke a building practically equivalent to one hewn out of solid rock-with the additional adventege that the "rock" is provided with tough steel fibres and singue

Of course concrete has its disadvantages. Like the little girl when it is ened it is very very good but when it is had it is horrid. Bad concrete made of inferior materials or mixed in the like unburnt clay but good concrete has the astonishing property of getting harder and better every year of its life Adventoge is taken of this applity of mod concrete in rether a singular way A building of say four or five storers is made and left as such for a counte of rears. At the end of that time the concrete has hardened and strengthened to such a degree that it is possible to add strongthening of the substructure as would be necessary with any other class In Canada, so far, concrete reinforced

or otherwise, has been used chiefly in buildings. There have been a feer office buildings made of it and no merces smaller buildings such as dwelling houses, but in its experimental stages its use has been characterized by a certain beaviness and clumsiness which has created some prejudice against it. when appearance has to be studied. This beaviness is not by any means necessary; concrete is canable of considerable lightness and grace and naturally by the use of well designed moulds on the cutside walls of the forms, it has great possibilities of ornamentation. But at any rate it is well that factories with their erest demands of strength, fire-resistance and so on should have seen it through its early stages and it could have no better intraduction to the world in experal than the enthusiastic testimony it has receiv-

REMARKABLE BUILDING PRATS. Even though the purely steel structure no longer has the field of hig. economical, and rapid building all to itself it is responsible for most of the miracles the modern builder has accomplished. And not only has it made miracles of construction possible, but of reconstruction also. Quite a commonplace feat of steel, for instance, is the creation of one building a-straddle of

ed from manufacturers.

another The case of the Bank of Hamilton's head office in that city is a good example. The Bank was housed in an old three-storey building and desired. without changing its site to move into a modern structure of nine storeys. No temporary premises were available in the town and it was therefore necessary to add another six storeys to the existing building without shifting or disturbing the business of the bank cerried on therein.

this article show in a striking manner. three stages of the work. Similar operations have been carried out in many parts of Canada: in Toronto, the other day, three storeys were added to a building in almost exactly the same way and indeed there is hard-

ly any limit to the resources of the building engineer with modern materisla and methods at his command Still, with all the wonders that steel has made possible, it is refreshing to the conservative mind to see good old-fashioned masonry still holding its ground and to watch even the biggest types of buildings going up brick by brick. course by course, on exactly the same principle as that wherewith Balbus builded his wall and the federated nations on the plains of Rebylon started

their abortive skywerener Only the principle is the same: the methods and materials are very different. Of hricks, for instance, there are now many kinds in use for different purposes and there is unbounded wealth of choice in tiles and torre cotte and artificial stone. Still the ancient principle remains. The bricks, or blocks, or slahs are slung by cranes or derricks. or earried by immemorial bodmen to their appointed places in the wall and honded together with mortar. Even concrete conforms in some instances to old tradition: instead of moulding itself into a monolithic mass it allows itself to be shaped into blocks and built up in the good old-fashioned way.

Working Under Discouragement

Nothing will take the heart out of a worker so quickly as discouragement. It is easy to push on when hope is hright, when prospects are good, but it is a rare character who can do good work, keen up his enthusiasm and courage when he sees no hope or encourneement. This is what tests weak characters. Weak men push ahead when everything is favorable; but when hope is blotted out, when there is no future in sight, no prospects to cheer, it is a very different thing. But the world builders, the civilization lifters have been those who have trained themselves to keen nushing ahead anyway, whether things look bright or dark. This is the test of a strong character, of a man's quality,

The Smoke Bellew Series

TALE SEVEN: THE LITTLE MAN

In which are related further thrilling adventures of Smoke and Shorty.

By Jack London

"I WISH you woun't so set in your ways," Shorty demurred. "I'm sure scairt of that glacier. No man ought to tackle it by his lonely." Smoke laughed cheerfully, and ran his eye up the glistening face of the tiny glacter that filled the head of the

weller "Here it is, August already, and the days have been setting shorter for two months, he epitomized the situation. "You know cuarts, and I don't. But I can bring up the grab, while you keen after that mother lode. So long. I'll he back by to-morrow evening." He turned and started

"I got a hunch something's goin' to happen," Shorty pleaded after him. But Smoke's reply was a hantering laugh. He held on down the little valley, occasionally wiping the sweat from his forehead, the while his foot crashed through ripe mountain raspberries and delicate ferns that grew beside putches of sun-sheltered ice.

In the early spring he and Shorty had come up the Stewart River and issurched out into the amazing chaos of the region where Surprise Lake lay, And all of the spring and half of the summer had been consumed in futile wanderings, when, on the verse of turning back, they caught their first climber of the haffling gold-hattamed sheet of water which had lured and fooled a peneration of miners Making their camp in the old cahin which Smoke had

discovered on his previous visit, they had learned three thines. First, heavy numer onld was carneted thickly on the lake hottom; next, the gold could be dived for in the shallower portions, but the temperature of the water was mankilling; and, finally, the draining of the lake was too stupendous a task for two men in the shorter half of a short summer. Undeterred, reasoning from the coarseness of the gold that it had not traveled far, they had set out in search of the mother lode. They had crossed the big glarier that frowned on the southern rim and devoted themselves to the nuzzling maze of small valleys and canyons beyond, which, by most unmountainlike methods, drain-

lake The valley Smoke was descending, gradually widened after the frebion of any normal valley; but, at the lower end, it pinched narrowly between high precipitans walls and abruptly storned in a cross wall. At the base of this, in a welter of broken rock, the streamlet disappeared, evidently finding its way out underground. Climbing the cross well from the top Smoke sow the lake beneath him. Unlike any mountain lake he had ever seen, it was not blue. Instead, its intense peacock green tokened its shallowness. It was this shallowness that made its draining feasible All about arose ismbled mountains. with ice-erarned neaks and crass, groteamely-shaped and grouped. All was

ed, or had at one time drained, into the

topsy-turvy and unsystematic-a Dore nightmare. So fantastic and impossible was it that it affected Smoke as more like a cosmic landscape joke than a rational portion of earth's surface. There were many glociers in the canyons most of them tiny, and, as he looked, one of the larger ones, on the north shore, calved amid thunders and splashings. Across the lake, seemingly not more than half a mile, but as he well knew, five miles away, he could see the bunch of sprace trees and the cabin. He looked again to make sure, and saw smoke clearly rising from the chimney. Somebody else had surprised themselves into finding Surprise Lake, was his conclusion, as he turned to climb the southern wall.

From the top of this he came down into a little valley, flower-floored and lazy with the hum of been that behaved quite sa a ressonable valley should. insofar as it made legitimate entry on the lake. What was wrong with it was its length-scarcely a hundred yards: its head a straight up-and-down cliff of a thousand feet, over which a stream nitched itself in descending veils of

And here he encountered more smoke, floating lazily upward in the warm sunshine beyond an out-jut of rock. As he came around the corner he heard a light, metallic tap-tapping and a merry whistling that kept the best. Then he saw the man, an upturned shoe between his knees, into the sole of which he was driving hob-spikes. "Hello," was the stranger's greeting. and Smoke's heart went out to the mor in ready liking. "Just in time for a snack. There's coffee in the pot, a couple of cold flaplacks, and some berky."

"I'll so you if I lose," was Smoke's acceptance, as he sat down. "I've been rather skimped on the last several meals, but there's godles of grab over in the colon." 'Acres the lake? That's where I was heading for."

populous," Smoke complained, emptying the coffee not. "Go on, you're joking, arn't you?" the man said, surprise painted on his

Smoke laughed. "That's the way it takes everybody. You see those high ledges across there to the northwest? There's where I first saw it. No warning. Just suddenly caught the view of

the whole lake from there. I'd given up looking for it, too "Same here." the other screed. "Td headed back and was expecting to fetch the Stewart last night, when out I nonned in sight of the lake. If that's it. where's the Stewart? where have I been all the time? And

how did you come here? And what's "Rellew.......Kit Rellew."

"Oh! I know you." The man's even and face were bright with a joyous smile, and his hand flashed enverly out to Smoke's, "I've heard all about you "Been reading police court news I Smoke sparred modestly.

"Nope." The man Isughed and shook his head. "Merely recent Klondike history. I might have recognized you if you'd been shaved. I watched you putting it all over the gambling crowd when you were backing regulate in the Elkhorn My name's Cerson Andy Carson; and I can't begin to tell you how glad I am to meet up with you He was a slender man, narrow-shouldered and slightly stooped, but wire

with health, with quick black eyes and a magnetism of camaraderie. "And this is Surprise Lake?" he murmured incredulously.

"It certainly is." "And it's bottom's buttered with gold "Sure. There's some of the churn-

." Smoke dipped in his overalls pocket and brought forth half a dozen purceeds. "That's the staff. All you have to do is to go down to bottom blind, if you want to, and pick up a handful. Then you've got to run half "Seems Surprise Lake is becoming a mile to get up your circulation."

"Well, gosh dash my dingbats, if you haven't besten me to it," Carson swore whimsically, but his disappointment was patent. "An' I thought I'd scooped the whole caboodle. Anyway I've had the fun of getting here." "Fun!" Smoke cried. "Why if we can ever get our hands on all that bottom, you'll make Rockefeller look like

thirty cents." "But it's yours." was Carson's objec-

"Nothing to it, my friend. You've got to realize that no gold deposit like it has been discovered in all the history of mining. It will take you and me and my partner and all the friends we've got to lay our hands on it. All Benzuze and Elderede dumned together wouldn't be richer than helf on acre down there. The problem is to drain the lake. It will take millions. And there's only one thing I'm afraid of. There's so much of it that if we failed to control the output it will bring about the demonstration of gold." "And you tell me . . .

on broke off, speechless and amazed. "And glad to have you. It will take a year or two, with all the money we can mise, to drain the lake. It can be done. I've looked over the ground But it will take every man in the country that's willing to work for wages. We'll need an army, and we need right now decent men in on the ground floor. Are you in?"

"Am I in? Don't it look it? I feel so much like a millionsire that I'm real timid about crossing that his clocier. Couldn't afford to breek my neck now. Wish I had some more of those hobspikes. I was just hammering the last in when you came along How's yours?

Let's are Smoke held up his foot. "Worn smooth as a sketing rink!" Carson cried. "You've certainly been

hiking some. Wait a minute, and I'll pull some of mine out for you. But Smoke refused to listen "Pesides." he said "Pre out shout forty fest of rope carhed where we take the about such stuff? I was clerking, rail-

ire. My partner and I used it coming over. It will be a cinch-

It was a hard, hot climb. The sun blazed dazdingly on the inscurface and

with storming popes they panted from the exertion. There were places, crissemssed by countless fissures and cravasses, where an hour of dangerous toil advanced them no more than a hundred varus. At two in the afternoon beside a pool of water bedded in the ice. Smoke called a holt "Let's tackle some of that jerky," he

said. "I've been on short allowance. and my knoes are shaking. Besides we're across the worst. Three hundred yards will fetch us to the rocks, and it's ensy uning, except for a couple of nasty fissures, and one bad one that heads us down toward the bulge. There's a weak ice-bridge there, but Shorty and I managed, it " Over the jerky, the two men out ac-

quainted, and Andy Carson unbecomed himself of the story of his life "I just knew I'd find Surprise Lake."

he mumbled in the midst of mouthfuls. "I had to. I missed the French Hill Benches, the Bly Skookum, and Monte Cristo, and then it was Surprise Lake or bust. And here I am. My wife knew I'd strike it. I've got faith enough but hers knocks mine calley west. She's a corker, a crackerisek-dead come grit to her finger ends never-eav-die . women for me true blue and all the

rest. Take a look at that " He sprung up his watch, and on the inside cover Smoke saw the small, pasted parture of a bright-haired woman. framed on either side by the laughing

"Boys?" he queried.

"Boy and girl." Carson answered proudly. "He's a year and a half older" He sighed "They might have heen some grown, but we had to wait, You see, she was sick. Lungs. But she nut up a fight. What d'you know road clerk Chicom, when we got morried. Her folks were tuberculosis. Doctors didn't know much in those door They said it was hereditary. All her family had it. Caught it from each other, only they never massed it. Thought they were born with it. Fate. She and I lived with them the first couple of years. I wasn't afraid. No tuherculosis in my family. And I got it. That set me thinking. It was con-

tagious. I caught it from breathing their sir. "We talked it over, she and I. Then I jumped the family doctor and consulted an up-to-date expert. He told me what I'd figured out for myself, and said Arizona was the place for us. We pulled up stakes and went down-no money, nothing. I got a job sheepberding, and left her in townhtng town. It was filled to spilling

with lungers. "Of course, living and sleeping in the clean open. I started right in to mend. I was away months at a time. Every time I came back, she was worse. She just couldn't pack up. But we were learning. I jerked her out of that town she went to sheen-herding with me. In four years, winter and summer, cold and heat, rain, snow, and frost, and all the rest we never alers under a roof, and we were moving camp all the time. You ought to have seen the change -- brown as herries lean as Indians, tough as rawhide. When we figured we were cured, we pulled out for San Francisco. But we were too previous. By the second month we both had slight hemorrhages. We flew the

oom back to Arizons and the sheen. Two years more of it. That fixed us Perfect cure. All her family's dead. Wouldn't listen to us. "Then we sumped cities for keeps. Knocked around on the Pacific Coast.

and Southern Oregon looked good to us. We settled in the Rogue River Vallev-apples. There's a hig future there, only nobody knows it. I sot my land-on time, of course for forty an acre. Ten years from now it'll he worth five hundred.

"We've done some almighty hustling. Takes money, and we hadn't a cent to start with-you know, bad to build a house and harn, get horses and plows, and all the rest. She taught school two years. Then the how came But we've got it. You quebt to see those trees we planted.___a bundred acres of them, almost moture now But it's all been outgo, and the mortgage working overtime. That's why I'm here. She'd a-come along only for the kids and the trees. She's handlin' that end, and here I am, a gosh-danged ex-

pensive millionaire . . . in pros-He looked happily across the sundazzle on the ice to the green waters of the lake along the farther shore, took a final look at the photograph, and mar-

mured: "She's some woman, that. She's hung on. She just wouldn't die, though she was pretty close to skin and hope all wrapped around a bit of fire when she went out with the sheep. Oh, she's thin now. Never will be fat. But it's the prettiest thinness I ever saw, and when I get back, and the trees begin to bear, and the kids set soins to school, she and I are going to do Paris. I don't think much of that burg, but she's just hankered for it all her life."

"Well, here's the gold that will take you to Paris," Smoke assured him. 'All we've got to do is to get our hands on it."

Corson nodded with elistening eyes. "Say-that farm of ours is the prettiest piece of orchard land on all the Pacific Coast. Good climate, too. Our lunes will never set touched again there. Ex-lancers have to be mighty careful you know. If you are thinking of settling, well, just take a peep in at our valley before you settle, that's all, And fishing! Say-did you ever get a thirty-five pound sulmon on a sixounce rod? Some fight, bo, some



"Andy Carson, the little man."

well," he ordered. "If I go I'll take you with me."

"You shut up." he ordered. "The

Shut up. You sin't stoine to ever start going. Now do what I say That's right . . . under the shoulders . . . Make it fast Now! Start! Get a move on but easy as you so. I'll take in the slack

he had managed to turist crosswise as he You just keep a coming. That's it. Easy . . . Easy.' Smoke was still a dozen feet sway when the final collapse of the bridge hegan. Without noise, but in a lerky way, it crumbled to an increasing tilt. "Quick!" Curson called, coming in

hand over hand on the slack of the rope which Smoke's rush gave him. When the crash came, Smoke's fingers were clawing into the hard fees of

the wall of the crovesse while his body dragged back with the falling bridge. Carson sitting up, feet wide aport and braced, was heaving on the rope. This effort swung Smoke in to the side wall. but it ierked Carson out of his niche. Like a cat, he fored about, clawing wildly for a hold on the ice and slipping down. Beneath him, with forty feet of taut rope between them. Smoke was clawing just as wildly; and ere the thunder from below announced the arrival of the bridge, both men had come

to rest. Carson had achieved this first. and the several pounds of pull he was able to put on the rope had beloed bring Smoke to a ston.

Each lay in a shallow niche, but Smoke's was so shallow that, tense with the strain of flattening and sticking. nevertheless he would have slid on had it not been for the slight assistance he took from the 100e. He was on the verse of a bules and could not see beneath him. Several minutes nessed, in

than book to the way before him Two. thirds over, he came to the depression. Smoke objected The little man became very perampsound of your voice is enough to start

The sharp edges of the crack, but slightly touched by the sun, showed how recent it was. His foot was lifted to take the step scross, when the crack been slowly widening, at the same the whole thing going." time emitting numerous sharp snare "If I aver start going-" Smoke He made the step quickly, increasing began. the stride of it, but the worn nails of his shoe skated on the further slope of the depression. He fell on his face. and without pause slipped down and

His first sensation was the nauses caused by the sickening upleap of his pulse: his first idea was of surprise that he had fullen no further. Behind him was erackling and jar and movement to which the stick vibrated. From heneath in the heart of the glarier, came the soft and hollow thunder of the dislodged masses striking hottom. And still the bridge broken from its farthest support and ruptured in the middle, held, though the portion he had crossed tilted downward at a pitch of twenty degrees. He could see Carson, perched in his niche, his feet braced against the

aves involuntarily warrend to a climps

of the simmering depths. He jarked

into the crack, his legs hanging clear,

his chest supported by the stick, which

melting surface, swiftly recoiling the rops from his shoulders to his hand. "Wait," he cried. "Don't move, or the whole shooting match will come

down." He calculated the distance with a quick glance, took the bandana from his neck and tied it to the rope, and increased the length by a second handens from his pocket. The rope, manufactured from sled-lashings and short lengths of plaited mwhide knotted tosether, was both light and strong. The first east was lucky as well as deft, and Smoke's fingers clutched it. He evidenced a hand-over-hand intention of crawling out of the crack. But Carson,

"I'm lighter than you by forty pounds," Carson said. "Let me go

They stood on the edge of the crevasse. It was enormous and ancient, fully a hundred feet across, with sloping, aga-eaten sides instead of sharpangled rims. At this one place it was bridged by a huge mass of pressurehardened snow that was itself half ice. Even the bottom of this mass they could not see, much less the bottom of the crevassa. Crambling and melting. the bridge threatened imminent collarge. There were signs where recent portions had broken away, and even as they studied it a mass of helf a ton dis-

lodged and fell Looks pretty bad," Carson admitted with an aminous head shake "And it looks much worse than if I ween't a mil-

"But we're got to tackle it." Smoke said. "We're almost across. We can't go back. We can't camp here on the ice all night. And there's no other way. Shorty and I explored for a mile up. It was in better shape, though, when we

crossed " "It's one at a time, and me first." Carson took the part coil of rope from Smoke's hand. "You'll have to cost off I'll take the rope and the rick Gimma your hand so as I can slip

down ener " Slowly and carefully he lowered himself the several feet to the bridge, where he stood, making final adjustments for the perilous traverse. On his back was his pack outfit. Around his neck, resting on his shoulders, he coiled the rope one end of which was still fast to his

"I'd give a mighty good part of my millions right now for a bridge construction game," he told Smoke, jest his cheery, whimsical smile belied the words. Also, he added, "It's all right.

I'm a cut." The nick and the long stick he used as an alpenstock, he balanced horizontally after the manner of a rope-walker

He threst one foot forward tentatively. drew it back, and steeled himself with a visible physical affort. "I wish I was flat broke," he smiled up. "If ever I set out of being a millionairs this time. I'll prover be one again. It's too uncomfortable." "It's all right," Smoke encouraged. "Twe been over it before. Better let ma try it first." "And you forty pounds to the

women" the little man fleshed back "Pil be all right in a minute. I'm all right now." And this time the nerving up process was instantaneous "Well have goes for Rogue River and the apples." he said, as his foot went out, this time to rest carefully and lightly while the other foot was brought up and past,

Vary gently and circumspectly be continued on his way until two-thirds of the distance was covered. Here he stopped to examine a depression be must gross, at the bottom of which was a fresh erack. Smoke watching saw him whence to the side and down into the crevasse itself, and then begin a

glight swaving "Keep your eyes up!" Smoke commanded sharply "Now! Go on!" The little man obsestd nor feltered on the rest of the journey. The suncrowned alope of the farther edge of the crovesse was slippery but not steep, and

he worked his way up to a shallow niche foud shoot and at down "Your turn," he called across, "But just keep a-coming and don't look down. That's what got my goet, Just keep a-coming, that's all. And get a move on. It's simply rotten."

Belancing his own stick horizontally. Smoke essayed the passage. That the bridge was on its last less was notent. He felt a jar under foot, a slight movement of the mass, and a heavier jar. This was followed by a single sharp erackle. Behind him he knew that semething was happening. If for

no other resson, he knew it by the strained tense face of Corson From who had refusiened the rope around his beneath, thin and faint, came the murown waist, stopped him. mur of running water and Smoke's

which they took stock of the situation and made rapid strides in learning the art of sticking to wet and slipnery ice. The little man was the first to speak. "Gee?" he said; and a minute later. "If you can dig in for a moment and

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slack on the rope, I can turn over, Try Smoke made the effort, then rested on the rope again. "I can do it," he said. "Tell me

when you're ready. And be quick." "About three feet down is holding for my heels," Carson said. "It won't take a moment. Are you ready?"

"Go on." It was hard work to slide down a yard, turn over and sit up; but it was even harder for Smoke to remain flattened and maintain a position that from instant to instant made a greater call upon his muscles. As it was, he could feel the almost perceptible beginning of the slip when the rope tightened and he looked up into his companion's face. Smoke noted the vellow pellor of suntan forsaken by the blood, and wondered what his own complexion was like. But when he saw Carson with shaking fingers, fumble for his shouthknife, he decided the end had come. The man was in a funk and was ening

to cut the rone. "Don't m-mind m-m-me," the little man chattered. "I sin't seared. It's only my nerves, cosh dang them. [7]] b-b-be all right in a minute."

And Smoke watched him, doubled over, his shoulders between his knees shivering and awkward, holding a slight tension on the rope with one band, while with the other he hacked and conced holes for his beels in the

ice. "Carson," he breathed up to him. "you're some bear, some bear," The answering grin was shastly and

pathetic. "I never could stand height," Carson confessed. "It always did get me. Do you mind if I stop a minute and clear my head? Then I'll make three heel-holds deeper so I can heave you

Smoke's heart warmed. "Look here. Curson. The thing for you to do is to cut the rope. You can never set me up, and there's no use both of us being lost. You can make it out with

your knife." "You shut up," was the hurt retort. "Who's running this?" And Smoke could not help but see that anger was a good restorative for the other's nerves. As for himself, it

was the more nervo-racking strain, lying plastered against the ice with nothing to do but strive to stick on. green and a quick ery of "Hold on!" warned him. With face presend against the ice, he made a supreme sticking effort, felt the rone slacken

and knew that Carson was slinning toward him. He did not dare look up until he felt the rope tighten and knew the other had again come to rest. "Gee, that was a near go," Carson chattered. "I came down over a vard, Now you wait. Pve got to dig new holds. If this damaged ice wasn't so

melty, we'd be hunky-dory." Holding the few pounds of strain necessary for Smoke with his left hand, the little man jabbed and chopped at the ice with his right. Tan minutes

of this passed. "Now. I'll tell you what I've done " Carson called down. "I've made heelholds and hand-holds for you aloneside of me. I'm going to heave the rope in slow and easy, and you just come along sticking an' not too fast. I'll tell you what. First of all, I'll take you on the rope, and you worry out of

that pack. Get mager Smoke nodded, and with infinite care unbuckled his pack straps. With a wrigele of the shoulders he dislorded it, and Carson sor it slide over the bulge and out of sight.

"Now. I'm going to ditch mine," be called down "You just take it easy and wait."

Five minutes later the upward struggle began. Smoke, after drying his hands on the insides of his armskeeves, clawed into the climb-bellied. and clung, and struck and plasteredsustained and helped by the pull of the rope. Alone, he could not have adholes this time deep enough to heal up vanced. Despite his muscles, because

of his forty pounds handican, he could not cling as did Carson. A third of the way up, where the pitch was steeper and the ice less eroded, he felt the stmin on the rope decreasing. He moved slower and slower. Here was no place to stop and remain. His most desperate effort could not prevent the stop, and he could feel the down-slip beginning. "I'm going," be called up.

"So am L" was the reply, gritted through Carson's teeth

"Then cast loose," Smoke felt the rope tauten in a futile effort, then the pace quickened, and as he went post his previous lodgment and over the bulge the last glimpse he caught of Octoon he was turned over. with madly moving hands and feet striving to overcome the downward draw. To Smoke's surprise, as he went over the bulge, there was no sheer fall The rope restrained him as he slid down a steeper pitch which quickly other niche on the verge of another bulge. Carson was now out of sight, ensconced in the place previously occupied by Smoke.

"Gas !" he could hear Carson shiver. An interval of quiet followed, and

then Smoke could feel the rope "What are you doing?" he called up "Making more hand-and-foot-holds, came the trembling answer "You just wait. I'll have you up here in a uffy. Don't mind the way I talk. I'm

just excited. "But I'm all right. You wait and sen." "You're holding me by main strength," Smoke argued, "Soon or late, with the ice melting, you'll slip down after me. The thing for you to do is cut loose. Hear me? There's no use both of us coing Get that? You're the biggest little man in creation, but you've done your best. You cut loose." "You shut up. I'm going to make

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a span of horses." "You've held me up long enough," Smoke urged. "Let me on

"How many times have I held you up?" came the truculent query. "Some several, and all of them too many. You've been coming down all

"And I've been learning the game all the time. I'm going on holding you up until we get out of here. Savre? When God made me a light weight I guess he knew what he was

about. Now, shut up. I'm busy." Several silent minutes passed Smoke could hear the metallic strike and back of the knife, and occasional driblets of ice slid over the bulge and came down to him. Thirsty, clinging on hand and foot, he caught the fragments in his mouth and melted them to water which be swallowed.

He heard a gaso that slid into a group of despair, and felt a stackening of the rope that made him claw. Immediately the rone tightened again. Straining his eyes in an upward look along the steep slope, he stared a moment, then saw the knife, point first slide over the verse of the bulse and down upon him. He tucked his cheek to it, shrank from the pane of cut flesh, tucked more tightly, and felt the knife come to rest.

"I'm a slob," came the wail down the "Cheer up, I've got it," Smoke aus-

"Say! Wait! I've a lot of string in my nocket. I'll drop it down to you. and you send the knife up."

Smoke made no reply. He was battling with a sudden mah of thought. "Hey! You! Here comes the string. Tell me when you've got it."

There's room for a half closen here.

there. I saw the smoke. Get a roce.

or anything that will make type, and

"Honest?" came Capon's incredu-

"Cross my heart and hope to die.

Smoke kept himself warm by kick-

ng a channel through the rim with the

heel of his shoe. By the time he had

drained off the last of the water, a call

from Carson announced that he had

Now, get a hustle on, or I'll eatch my

come back and fish for me."

A small pocket knife, weighted on the end of the string, slid down the ice Smoke got it, onened the larger blade by a quick effort of his teeth and one hand, and made sure that the blade res sharp. Then he tied the sheath, knife to the end of the string "Heal away?" he called

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With strained eyes he saw the unward progress of the knife. But be saw more-a little man, afraid and indomitable, who shivered and chatted whose bead swam with eiddiness, and who mastered his qualms and distresses and played a hero's part. Also Smoke saw again the face of the bright-heired woman with the face of a child on either side And dim in the here of western summer he saw souls trees growing in a river valley, and in the timples of the river the flash of leaving salmon. Not since his meeting with Shorty, had Smoke so quickly liked a man. Here was a proper most-color. eager with friendliness, generous to destruction, with a grit that shaking fear could not shake. Then, too, he considered the situation cold-bloodedly. There was no chance for two. Steadily, they were sliding into the heart of the placier, and it was his greater weight that was dragging the little man down. The little man could stick like a fly. Alone, he could save himself. "Bully for me!" came the voice from

shove, down and across the bulge of ice. "Now we'll get out of here in two shakes." The awful struggle for good cheer and hope in Carson's voice, decided

Smoke "Listen to me," he said steadily, vainly striving to shake the vision of Joy Gastell's face from his hrain. "I sent that knife up for you to get out with. Get that? I'm going to chop loose with the jeck-knife. It's one or the both of us. Get that?"

"Two or nothing," came the grim, but shaky response. "If you'll hold on e minute " "I've held on for too long now. I'm not rearried. I have no aderable thin woman, nor kids, nor apple trees waiting for me. Get me? Now, you hike to hell-and-gone up and out of that?" "Wois! for God's sake weit!" Carson screamed down. "You can't do that. Give me a chance to get you out. Be calm, Old Horse. We'll make the turn. You'll see. I'm going to dig holds that'll lift a house and harn."

Smoke made no reply. Slowly and gently, fascinated by the sight, he cut with the knife until one of the three strands popped and parted.

"What ere you doing?" Carson cried desperately. "If you cut, I'll never forgive you never. I tell you it's two or nothing. We're going to get out. Wait! - for God's sake! And Smoke, staring at the perted strand, five inches before his eyes, knew fear in all its weakness. He did not want to die: he recoiled from the shimmering above beneath him end his namic brain urged all the preposterous optimism of delay. It was fear that prompted him to compromise. "All right," he called up. "Til wait,

Do your hest. But I tell you, Carson, if we both start slipping egain Pm points to cot " "Huh! Forget it. When we start, Old Horse, we start up. I'm e porous plaster. I could stick here if it was twice as steep. I'm getting a simble hole for one heel already. Now, you

hush, and let me work." The slow minutes passed. Smoke centered his soul on the dull burt of a bang-neil on one of his fingers. He should have clinned it ever that morning-it was hurting then-he decided; and he resolved, once clear of the crevesse that it should immediately be clipped. Then, with short focus, he stored of the honorosil and the finger with e new comprehension. In a minute, or a few minutes at hest, that hangnall, that finger, cunningly jointed and efficient, might be part of a mangled carross at the bottom of the crossom Bear-enters were made of sterner stuff.

In the anger of self-revolt he all hut

backed at the rone with his knife. But fear made him draw back the hand and to stick himself again, trembling and sweeting, to the slippery slope. To the fact that he was stoking wet by contnet with the thawing ice, he tried to attribute the cause of his shivering, but he knew, in the heart of him, that it was untrue

A case and a green and an abrupt body would lerk Carson's after it. and life-love of him besten down in a

rapidly, and then fall What happened then, he did not know. He was not unconscious, but it happened too quickly, and it was unexpected. Instead of falling to his don'th his fact almost immediately struck in water, and he sat violently down in water that splashed coolingly on his face. His first impression was that the encourse was shallower than he had imprined and that he had safely fetched bottom. But of this he was quickly disphysed. The opposite wall was a dozen feet away. He lay in a hasin formed in an outjut of the icewall by melting water that dribbled and trickled over the holge above and fell

the bottom.

now. Do you see it?" "Yes: and I've not it" be answored "Now, wait a couple of minates, sheer down a distance of a deam feet. This had hollowed out the hasin. "What's the matter?" came has envi-Where he set the water was two feet on- query, after several minutes "Oh, deen, and it was flosh with the rim.

I know you're burt." He neared over the rim and looked "No. I'm not. I'm dressing." down the narrow chasm hundreds of "Drawing?"

feet to the torrent that fearned along "Yes I've been in swimming Now! Ready? Hoost away !"

feetly safe, eitting in a pool of water un to my neck. And henc's both our packs. I'm mine to sit on them. If you slip, stick close and you'll land, In the mountline you like up and get out. Go to the cabin. Somebody's

slackening of the rone, warned him He began to slip. The movement was very slow. The rope tightened lovally. but he continued to slip. Casson could not hold him, and was slipping with him. The digging toe of his fartherextended foot encountered vacancy. and he knew that it was over the straight-away fall. And he knew, too, that in another moment his falling Blindly, desperately, all the vitality

proched the top flushing instant by a shuddering percention of right and wrong, he brought After that Smoke occupied himself with drying his clothes. The late afterthe knife-edge across the rone, saw the strands part, felt himself slide more

loas voice.

death of cold."

noon son best warmly in upon him. and he wrong out his garments and sproud them about him. His match-case was waterproof, and he manipulated paper to make cigarettes.

and dried sufficient tobacco and rice Two hours later, perched naked or the two packs and smoking, he heard a voice above that he could not fail to

identify. "Oh Smokel! Smoke!" "Hello, Joy Gastell!" he called back. "Where'd you drop from?"

"Are you buri?" "Not even any skin off!" "Father's paying the rope down

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trip, was consequently rehuked by Joy Gastell, and on the second trip came up himself.

He sent up the two packs on the first splendid way?" she cried. "It was-it use olorious that's all' Smoke waved the compliment away

with a deprecatory hand. "I know all about it," she persisted. "Carson told me. You sperifieed your-

Joy Gastell looked at him with self to save him." glowing eyes, while her father and Car-"Nothing of the sort," Smoke lied, son were bosy coiling the rope. "I could see that swimming pool right "How could you cut loose in that under me all the time."

(In the August issue of MacLean's Magazine, the eighth Tale in the Smoke Bellow series, "The Hanging of Cultus George," will appear).

The Loafing Habit

One of the most fatal habits is that of taking things easy, the habit of loading, of killing time, of sitting around and dreading one's task. The way to rob a nettle of its sting is to grasp it quickly, vigorously, not to fool with it. Many people are like this when they play with a spoonful of medicine because they dread to swallow the bitter disagreeshle remedy. They make the dreaded thing infinitely worse by nutting it off.

I know people who always have a lot of put-off disagreeable tasks, waiting until they "feel like it." They are like the general who skipped all the difficult fortresses and took his army along the line of least resistance. By and by these neglected posts fired upon

his army and gave him a constant annovance. The way to rob a task of its disserseableness is to tackle it promptly and viceroscaly and get it out of the way. This habit of playing with a spoon before taking a disagreeable medicine only

delays the torture. Swallow it quickly and have done with it. Fight against the losting propensity, the habit of dawdling and putting off disagreeable things as you would fight for your life in a desperately dangerous situation. Apathy is a terrible for of achievement.

Doing the Fall Fairs

AN EXPOSURE OF THE SCHEMES WHICH HAVE BEEN WORKED BY FAKIRS AT SOME EXHIBITIONS IN CANADA.

The fall fair season will soon be with us. Already directors of exhibitions are formulating their plans for thrillers. In this article, which is be the nature of a humorous exposure, the public is given a glimper behind the scenes, and is shown something of the methods which are followed by pro-fessional fakirs in "Doing the Fall Pairs". The invident on which the story is based actually happened, but in rustice to the Pairs it should be said that the various organizations are now co-speration throughout Cappin in an effort to eliminate, so far as possible, all attenues to force the public, even though it does, as Parson averred, "like to be hombrgged."

Ry James P. Haverson

"THERE'S one thing a guy's got to have to work the fall fairs, and that is nerve. If he's got that he don't need much else." This tehloid wisdom was handed out late one night, or to be oncurate, early one morning, hy my friend the ex-reporter, ex-advertising man ex-mail order merchant and exmostly anything else to which a man could turn his hand or fertile hrain hy way of easing a living out of an iron-

fisted and stouy-hearted world. This man had the name, also he had one sick crocodile, one \$125 snake, and, later annexed Nellie, the Wild Girl, With these he successfully worked the fall fairs, not in distant lands, but right here in Canada, and by tickling, prodding and otherwise irritating the curiouties of our own home-grown tillers of the soil entired, inveigled and extracted a sufficient number of nickels and dimes from their well energed neckets to keep him, not only grub-staked and provided with pocket money, but also,

on his return to his native payements.

to allow of the purchase of much weirdly-colored and grotesomely corven

This is how it was done as he tells it, and every one who has good onenmonthed and wide-eyed at the assorted wonders set forth in the side shows of our fall fairs should read if they would know just what sort of a run they got

for their money, if any was expended "Over at the Toronto Island," said my friend, "there was a guy with a crocodile doin' a dime show stunt. He wasn't makin' it go very good. The crock had cost him about \$150 duty and all. He tried the same fer about three days, and then was so close to the cashion that he hadn't the heart to keep it up. I sat in and listened to him tellin' what a thorny path a guy in the show business had to go, and finally purchood the crock for 25 bones. "Talkin' it over with a friend of

mine, we decided to take a whirl at the

fall fairs, but figured that we'd need

more than this one crocodile to so un against that same. The erocodile seemed to be dyspentic and just about as down hearted as the our I bought him from. Beside that, it was only right that my friend should put something into the show if we were to split the onte receipts two ways and break even. My friend come in with a sixteen-foot make that weighed in at 100 nounds, also he got hold of a bird, a macow. I think it was. It couldn't talk

but meet it had arrest feathers on its

"This was our outfit together with a tent and some sort of petrified fish when we went up against our first fair. The first one was at Oshawa not far from Toronto. We got our tents up and everything set before the first robe showed up. I went out to the front to do the spiel and they had to be rubes proper to fall for it, for I was new at the same then and nervouse then ony jelly fish in the show business. I put up a talk startin' in with the crock and windin' up with the spiked fish that got the cash anyway, though I don't know how they swallowed it. It would have been just about as easy to swallow the whole show tent, snake, crock,

spiked fish and everything.

"Gentlemen," I says, 'and ladies as well, this here crocodile is known as Rotey This here is the only black wah footed gross-file that was ever brought to this country alive and in captivity in a tank. This here crocodile was one of the saven secred orosediles of Chief Tananika, who was in his time just about the powerfulest of all the Northern African kings. These here seven crocodiles were used for the especial, awful and ghastly purpose of

devouring prisoners of wara "'Chief Tananika kept these here crocodiles in a small lake which was known to Europeans as the black pool, This here black pool is situated 700 miles worth of the mouth of the Nile River, and was first discovered by Livingston, the famous explorer, in one of his expeditions into that there im-

passable country. Three years ago, after the war with the mod Mullah Major Clark, the explorer and soldier, with a party of 309 men took Chief Tananika prisoner and captured three of his largest blackest and sermont erocodiles. Ladies and contlamen this here crocodile, which we have before you in this here tent touler is the largest of them three cuptured crocodiles. The other two smaller ones are in the London Zoological Gardens

tight now, if they ain't escaped," "Just about here," explained my friend, "the guy inside the tent would roll on a resined string in a tin ron and then there was an extel mer. Another guy that we had hired showed a piece of ment on a pole behind my back. Then there was another roar, and I men not to feed that empobile meet When I got inside I'd shout out, 'What do vouse guvs mesn? Do you want to get that erocodile so furious that we can't run no show to-day? If you

don't watch out you'll get bitten your-

"Of course, you know we didn't feed

him no mest. I don't know whether crospediles is meant to est must be not but the trouble with this here erocadile was that he wouldn't est notbin', and he died when we was three days out. We couldn't lose the crocodile, which was the himsest and of the show at this stage of the game, and so we cut bim open and stuffed him with salt. He acted just about as much alive after that as he did before, but we sort of felt that we had to have somethin' more in our repertory.

"It was about this time that we met un with Nellie, the Wild Girl, and so big. When Nellie quit we was outtin' kind of sick of the show business, and the whole thing bust up, but so long as the wild girl was there we played to a

big beginess." "What happened to Nellie, the Wild Girl?" I asked scenting trouble arising out of the caprices of the eternal "Oh he went home" remarked my friend disgustedly. "You see, his

father was a preacher up in Western Ontario and he didn't like his son to be mixed up with the show husiness, so he wired him the money to on home.

and Nallie went." My friend gazed rucfully at the well defined not to say glaring checks in his remarkable clothing, and mourned again the loss of Nellie, the Wild Girl.

"Gae, he went big." he grumbled at lost "and we sure had him fixed up great and the cuy that was with me had a dandy spiel to m with his stunt. He saved us from talkin' so much about that excel that was cetting' kind of whiffy anymoy and which we had to dumn a week before Nellie left us. "How did you dump the crocodile?" seked, and my friend grinned broadly as he replied: "You see it was this

way: We figured that crock had lived itet about as long as any dead crock should, and Nellie was cettin' to kinds kick about him being in the tent where he had to sleep, so one night the three of us packed him on our shoulders and dumped him into a farmer's field. We never heard what the farmer said nor what he thought, for we moved out of town early next morning. After that Nellie was pretty much the whole show. We had him fixed up wid a long wig of black hair comin' to his waist, a blue sailor bloose and a red skirt, and his bare lees, arms and face was nainted brown that they use on the stone to make Indians with. Then we had red and blue marks all over him fixed up to look like tattoo marks. You but he

was some wild looking girl. "Just before we dumped the crock we sent away to London, Out., for a benner to string out in front of the tent. There was a guy there that had one, but it wasn't a very good hanner for us, because he had used it with a wild man fake, and there was a picture lookin' elub, but not much hair. Nel-

lie had a whole lot of hair, but we didn't have no club for him, and see! he was skinny. Anyway, as soon as we got Nellie in the came we'd got a five-dollar order of small enakes, and he used to sit in a nit wid the big snake over his knees and the little snakes crawling over his here feet. I tell you what it is. I don't want none of this wild girl stant fer me own personal performance.

"I used to work in that little prickly fish into the spiel, and put it up to the ouve that it was a Japanese sea-horse. Looks here ledies and gents,' I'd say, 'we have also fer ver inspection a speciment of the rare Japanese sea-horse. If you turn to page 254 of Prof. Baker's great book on Aquatic Phenomenons you'll find that he describes this wonderful animal, which is also partly a fish, as the anthibious of the Sea of Janen. This here animal can both ewim and walk. It uses them spikes as less and in its natural state has a head like a horse. This here specimen in the process of dryin' it out shrunk in the neck, and so it don't look as much like a horse at that end as it did when

nlive "We had also a sort of papier mache mermaid thing. We used to tell 'em that this was a petrified mermaid found on the Japanese shores by Captain Silverthorn, late of the British navv. in a voyage which he made to them parts three years ago. Of course, them ouvs. was awful fish to fall for a talk like that, but if you handed out to the ordinary guy that all the stuff you're telling' 'em is set down in good, honest print, in a scientific book he's goin' to tumble for it every time. He don't know whether it's there or not, and even if he thinks it's phoney he sin't got the nerve to call yer bluff, provided you say it good and load and look awful sure. The average guy would rather take a chance

on noddin' his head and lookin' wise so as the rest of the bunch will think that he's read the book, too, and is a regular educated gake. "All this spiel had to be shouted out of a great big busky guy with an ugly good and loud, and we had to keep it

se fost so they could get "After the crock had crooked there would be some of the more what thought he didn't look as fierce as we had said in the spiel, and some of 'em used to wonder. I guess, how it was that he never roared when there was anyone inside the tent. But if any our seemed to think he wasn't real fierce all you had to do was to pull a bunch of bills out of yer pockets and offer 'em to any our that was came to put his band in the crocodile's mouth. There wasn't one that ever called this bluff. Goe it ever any guy had offered to he would have had to pry that crock's mouth open," chuckled my friend the show-

man in evil glee. "When the bunch started to so out." he continued still chuckling "the man on the door would look at 'em hard in the face and set 'em if it wasn't a somderful show, and if they wasn't satisfied. If you pin a guy down like that he's soin' to say yes every time. He ain't got the nerve to tell you to ver face that yer show's a bunk, even if he

thinks so. "After we'd got in the ossy bunch at fifteen cents, fer there's always a bunch that's goin' to crowd into a show anyway, you couldn't keep 'em out, we need to have to get busy with a hand axe. When they began to come hard we'd raise a bowl in the tent that some of the curs had been bitten by the cros. One time a fellow got his hand out in the merry-en-round and sneaked in at the back of the tent. He went runnin' out of the front vellin' that he'd been hit and waying his hand with the blood on it. Forty fifteen centers came in on that bloff " he mosed with a reminis-

cent own of estisfaction

He took up the tale anew. "We didn't always have a guy with a ent hand around but so long as there was anyone coin' in more was aretty save to follow and the guys workin' in the different shows used to belo each other

out. Some of the curve from enother show would come around when a fellow was pullin' his spiel, and if the regular rubes wurn't makin' no break to come in, the spieler would vell; "Shill," which meant that some of these phoney customers was to crowd forward, pay their money and hustle into the show as if they'd only been livin' un till now in the hope of some day bein' able to

"But when that eroc had to be dump-

ed it kinds put a crimp in the show.

and when Nellie's father called him

home on eccount of objections to the show business, we didn't have much heart to stick with the same so we decided to close the show. Some of the bunch struck for home right off the hat but others hated to quit the business flat. We kicked around fer about three weeks selling two dollar fountsin nene that cost us a nickel a niece and phoney diamonds and burn gold rings. One of the smys would sell the stuff and the rest would stall for him. That is when the guy was sellin' it one of the stalls

would come up and act as if he thought

the rings was phoney.

"He'd pull a bottle out of his nocket labelled acid and tell the guy that was sellin' it that be'd soon see if it was cold all right. All there was in that bottle was oil which never burt no kind of metal. When he dinned the ring into the stuff and nothin' happened be'd turn away corta disappointed, saying that he emessed it was cold all right and then some fish was deed sure to

buy that ring. "Gee," he concluded. "There's nothin' to it a guy cun have a whole lot of fun workin' the fall fairs. And it's dead easy if you know how and have the nerve

An Amateur Professional

By William Hugo Pabke

herself hugely at the Ocean View House. She had just graduated from college, and her immediate horizon bounded a summer of rest and pleasure: her future, a little farther removed, included a full and winter in Tanover and Egypt. Not the least factor in the pleasure of her stay at Maxatuxet was the arrival of Harry Dule with whom she had been friends since childhood. There had never been the slightest approach to sentiment in their friendship; beyond frank liking and a reciprocal cift of cay companionship they expected nothing of each other. and so were never disappointed.

DOROTHY BENSON was enjoying

do things that he knew absolutely nothing about. Moreover, he was always ready to beek his own prowess by a bet. He had made his debut at Maxatuxed by challenging a sturdy notice to a race in flat bottomed score he to use a single scull against a pair of sweeps wielded by his opponent. As usual, he had immed at a heaty conclusion, formulating in haphazard manner a profound but valueless theory regarding economy of power. Needless to say, he was benten by three-quarters of a mile. The bindly off-hand manner in which he paid the large olds of the bet, however. won him instant popularity with the morphine element at the Ocean View which had turned out in force to wit-

on arrogant confidence in his ability to

ness the event. This incident, together with his offer to play billiards for any stakes with a man whom he had just met and who afterwards turned out to he on emotour champion coused him to be the butt of considerable good-na-

tured quizzing.

One brilliant afternoon, shortly after his arrival he deshed down the level mile from the station in a shining new motor-car. He turned a short corner into the drive-way, demolishing a gorgeous but flimsy railing, and, before he could control his motor climbed part way up the steps leading to the hotel

He was greeted by a hurst of laughter from the group of girls above him, and a vell of derision from the proportionately small circle of men.

He reversed quickly, unconsciously turning his steering gear. The machine bumped heavily down the steps, and the rear wheels ruined a geranium bed; Herry Dale's chief characteristic was a quick turn to the left, and a beby carriage, fortunately empty, had passed into the category of useless things. The men on the piassa were doubled up in belpless mirth, the girls voicing their clee in hysterical laughter. Harry, not the least crestfallen, ast calmly in the motionless car with the mien of

one justly proud of a great achieve-"Where did you get it?" gasped Dorothy as coherently as her merriment permitted. "It belongs to Charles. He's going should and sent this beauty to me to

keen in order for him," explained Harry garing in amagement at his hearest whose mirth incressed with his answer. "Say Dot, won't you come out for a

little spin? Oh do, please," "Well I gross not," in solo, and then in charus from the hystanders.

What have I ever done to you. Harry, that you should wish to treat me so?" asked Dorothy.

"Why shouldn't you go? You're not afraid, are you?"

"Oh Dale, Dale, vou're incorrigible" laughed Mr. Breekage from the background. "You prove conclusively that you shouldn't be trusted with even your worthless self in an automobile, and then you ask for the responsibility of a

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fair passenger.

At this moment a stout, cheerful lit. tle woman emerced from the hotel otfice and approveded the group. "My dear," she began, addressing Dorothy. "Did I hear Harry Dule

threatening to do consething surful to "Not particularly swful, Aunt Jane ite only wanted to murder me. I don't understand his motive, for ----" "Now Miss Jane," broke in Harry:

"I merely asked Dot to ride in my car. or rather my brother's, and were body's been raising the deuce of a row. I don't see why." "Who broke that railing? Who plowed up that flower bed? Who is re-

sponsible for that pathetic little heap of sticks and lace?" asked Miss Jane, indicating with stern foreflaser the component parts of the debris scattered cover the lower

"Oh well, that happened while I was getting my practice," said Harry easily "But I'm all right now." He looked defigurity at the smiling half-circle.

The elder Miss Benson put an end to the discussion by telling Dorothy that she needed her. They went to their rooms, leaving Harry tinkering with his new toy, and beginning the explanation of a weird theory of motoring to an interested but unbelieving sudience As soon as Miss Jame had settled her comfortable bulk in the only choir in her room which was adequate to the

task of supporting it, she held out a letter to her niece. "Oh Dorothy," she said tearfully, "it's awful news. It's from your fether I don't know what we shall do I'm sure we'll all have to go to the noonhouse; anyway, we'll have to discharge

cook and the coachman." "There, there, Aunt Jane, I'm sure it's not so had as you think," said Dor- who knew the wealth of love that she

othy soothingly, taking the letter. She

Dear Jane I hope you and Dot are enjoying yourselves. I have met with severe failure of the Anderson deal, which had planned at this time because

He was apparently the only barrier to my success, but other interests conceed mine at the last, and-well, it's all over but the cheering. You and the child needn't change your plans for the present, but please be

prepared to curtail all unnecessary expenses in the future. Your aff, brother. Jas K. Benson. P.S .- Be sure to say nothing of

this to Breckase nor to his wife. J.K.B. "Do you suppose Mrs. Breckage would know anything about this?" asked Miss Jane tentatively.

"What good would it do if she did know about it?" asked Dorothy. "I'm going to ask her, anyway. I can't stand this suspense-it's so in-

"But Dad told you not say anything about it," protested Dorothy. "You may trust me, my dear, I shall he very discreet, and shall find out everything that I can without telling anything. Miss Jane started off in search of her

victim, leaving her nisce to think over the situation by herself. Like all smileless neonle. Miss Jane considered herself very deen. This very confidence in her own impenetrability would have made the coming contest with Mrs. Breekage all the more nathetically ridiculous to an observer who was conversant with the antagemists' characteristics.

Mrs. Breckage was a handsome wornan with a haughty, immobile face and the manner of a grande dame. She by no means were her heart on her sleeve There was but one person in the world showered on her husband, and the in- ed but hardly sympathetic. Was in numerable business secrets that she shared with him, and that person was Breckage, the financier. She was sitting alone in a sequestered angle of the wide veranda when Miss Jane came trotting by in search of her

"Ob. Mrs. Breckage, I feel so horrid and crumny and want some one to talk to and you'll do as well as any one else," panted Miss Jane with a fine dis-

Mrs Breekage leaghed languidly and laid an inviting hand on the chair beside her. She really liked the little old maid and admired her for replacing

never known. For this reason she forgave her crudities of monner. "Do you know anything about Mr. Breckage's deals?" asked Miss Jane calmly. "Women rarely know much about

their husband's husiness affairs," responded Mrs. Breckage with grave vagueness. "That doesn't tell me much."

thought her inquisitor. Then aloud: "But do you know anything about a scheme that he end my brother are in locether-no not together, but against each other-and which Jim should have come out ahead in so long as Mr. Breekees was out of town but he didn't?" After this coherent and strategie utterance she leaned forward and gazed imploringly at the passive face before

The financier's wife thought she did know all too much about such a deal. It was the only business that was takng her husband away from her after their short hanny week together and she had inveighed hitterly against Jim Bengon for being the cause of their

"You say that Mr. Benson failed in some scheme in which my husband was to fight his interests?" she asked

"Why, yes, that's it. He wrote me that he had met with financial reverses and that all was over but the cheering." The other looked decidedly interest-

possible that simple little Miss Jane knew about the Anderson coup? "Why did you ask if I knew anything about business affairs?" she operied "You see," blundered Miss Jane, "I thought you might tell me if this was very serious. I'm so distressed-and

the suspense is just terrible." "If you told me which particular operation it is. I might be able to give you on idea as to its magnitude "I-I don't know that I ought to." stammered Miss Jane. "Jim told me not to, but I don't see what harm it can

do and it will relieve my mind so so wall the mother that Dorothy had much. It's the-let me see-yes, 'the Anderson deal." "Ob. I'm so glad," cried Mrs. Breckage impulsively seeing the vision of another week's hanniness before her Her husband had told her that his as societes exicht he ship to null off the deal without him. They were confident of their shility and had insisted upon his going away for a rest in ac-

> So the matter was closed up already and he could spend another long, delicious week with her. "How can you say you're glad?" complained Miss Jane. "I meant that I was glad it was no worse," replied the other mendariously.

"And you don't think we'll all have to go to the poor-house?" "Nonsense. If I were you, I'd have implicit confidence in that very clever

brother of yours Jim Benson will never let you or Dorothy want for any-"Oh, thank you for explaining every-

thing to me," cried Miss Jane fervently. "I must run along and comfort my poor child." Dorothy, when left alone, had grimly set her teeth and thought matters

over. Her beautiful, rose colored plans for the fell and winter had to give way to the new combitious. What did it all mean? She could hardly realize it as her father had beretofore been invariably specessful. Deep in her heart she had a feeling that all would come right in the end : somehow, her father always made things come right

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She was a healthy young person, to whose nature brooding was entirely foreign. She made up her mind to enjoy the present anyway, and let the future take care of itself. With this obiget in view she want down stoirs to join

Harry's audience. As she came on to the veranda, she heard his load boxish votce exclaiming: "There's not a drop of sporting blood in the whole crowd. The only one who had anywhere near enough nerve to take me up was Miss Hastings." He glanced toward a piquante blonde perched on the railing, "She would have taken the bet if she hadn't been afraid of maternal disupproval. You men, I say, ought to be sahamed

of vourselves" "What is the matter with the boy? He seems to be unduly excited," cried

Dorothy. 'Oh, Harry has been giving us a lecture on 'How to Speed an Automobile Without Wasting Gray Matter," said Billy Royce, a large young man with an easy manner. "He wants to back his theory by racing all comers to Quissett and back for a thousand dollars." he continued, seeing that he had an interested listener in Dorothy. "None of us want to take his

money." said one of the older men-"I did." chirned little Miss Hastings "but I knew Maroma wouldn't let me "That's right," said Harry. did : she's dead some "How do you know that you'd get

his money?" asked Dorothy, of Billy Royce. "You haven't heard his theory yet, or you wouldn't ask that," he answered.

"It's the most..... "It's just this," interrupted Harry. "I say that in a race you want to forget there's a half-speed notch for your levor Just feed in all the nower you've got. The man that has the nerve to keep it there all through the race,

"Hear him talk," jeered Royce. "All the experience that he's had in motoring consists of smashing one railing,

one ormanium had, and one baby car-Dorothy thought quickly. She remembered the stretch of soft sand a

mile this side of Omissett. Then the shsurdity of Harry's speed theory impressed itself upon her. "Now you neonle up there have sot just one more chance at this bargain prodded Harry. "Cheen dirt cheen at

the price, hot and cold water in every room, only fifteen minutes' well from the station entrancing year healthful locality, especially for children-going -going-what, no takers?" Dorothy had made up her mind. Of course her father would disapprovebut would be? Annt Jone-ob well Aunt Jone always lot her do things onperially if she didn't know about them

until ofter they were done. Then these plans. Those beautiful plans which had been so vague a few moments befor Resides Dale Senior's millions could stand it "What would you do if some one really took you up, Harry?" she asked mockingly.

"Do?" exploded Harry, "Why, I'd buy champagne for the crowd after the race, and what was left I'd use as a first installment toward paving for a car of my our "

"I'll take your bet and your money too without compunction; you need a lesson," cried Dorothy, coming down the steps and bolding out her slim hand to him by way of confirmation. "Mr. Breckage, may I borrow your

car for the occasion?" She called over her shoulder. "You're welcome to it," said the financier, "and I'm happy to be able to ere the event as I've just had word that I may stay here another week." He smiled knowingly at his wife who had joined him immediately after hearing

Miss Jane's news, and had imparted the glad tidings to him. Long before the usual breakfast time the next morning. Dorothy came down maintained full power, endeavoring to her loval supporters, proceeded to the

The beach was deserted at this early hour and showed an unbroken strip of greamy white, curving slightly to the left toward Opissett, plainly visible across the crescent of blue water, sporkling in the sunlight. As Billy Royce staked down a piece of white canyas at the water's edge, little Miss Hustings remerked: "This reminds me of stretching the ribbons down the nisles

at a church wedding," "Don't mix sentiment with business. Miss Hastings," cried Harry gaily, bringing the front wheels of his car into position on the starting line beside

"I feel so shivery," said Miss Hastings in a husbed little voice, her face alive with excitement. Billy Royce drew a pistol from his pocket, and faring about, cried: "Are

you rendy? Answer! Miss Benson?" Ready P

"Mr. Dale?" "Ready!"

A fissh, a sharp report, and the race had becam. Before the signal Harry had been leaning forward eagerly, ready to burst into full speed at once, while Dorothy

had sat as calmly erect as though she wer about to start on a round of calls. Harry shot shead, and Dorothy was content to follow, leaving to the leader the strain of breaking the wind and making the pace. The hov raced without method while his shrewd opponent constantly watched the course, skirting bunches of marsh-grass and avoiding all irregularities. As they neared the mile-long stretch of soft sund which ended at the pier at Quissett, Dorothy's heart heat fast with excitement. Upon

and in an instant she was gaining per-

ceptibly. Harry, true to his theory,

Harry's tactics during this part of the rare depended her chance of winning Suddenly she saw a cloud of not sand flying from his driving wheels has be heared himself to meet the on-

stairs, veiled and gloved, and joining push through the obstruction by the shoer force of his motor.

When she was within one hundred varils of the dark wet sand Dorothy slowed down to half speed and corefully entered the donverous territory Without a slip, she formed ahead, and turning slightly to the left she nossed

She didn't look back once until with a case of relief, she felt the titreof her our eripping the hard road leading to the pier. Then she turned about for the finish and saw Harry not half way through the clinging sand. Again ming her policy of discretion she re-

crossed the treecherous mile, and the road stretched straight before her to Not until she was within half a mile of the finish did Dorothy's face show any excitement. As the watchers become discernable, her eyes dilated, and little by little she increased her speed until she rivalled Harry's pore at the start. She tore alone the hard, smooth beach toward the group at the finish. who watched with bated breath. One

moment she could percentize the faces. then she heard the words of encouragement shouted by her friends, and the next instant, her car passed over the ine with a wild rush. She slowed down, and turned to meet the oration which she foresaw. As she was shaking hands right and left, and talking to five or six elamoring admirers at once. Harry crossed the tape. He leaped from his seat, and ran to concontulate her with the some whole-

bearted outhweisers that he had dieplayed before the race. "Dot, you're a wonder!" he cried, handing her a check that he had writ-

ten for use in case of his defeat. One morning a week after the rare. Jim Beeson appeared suddenly at the Ocean View. As he slighted from the slaught of a slim young person who rushed down the path to greet him.

continued; "you're not going to register now Yon're going for a walk with me -Pve got just volumes to tell you." She drew the big man after her in the direction of the beach "From your inorotisting manner I

infer that you have something to con-"Oh. I have! I must confess first, and then I shall snub you for your insinuations, I did something very, very bad; but, oh Dad, I did want the money

so much." "Money? Why, you haven't forged my name, have you!" asked her father

"Pretty nearly as bad," said Dorothy. hanging her head. "I raced Harry Dole to Onimett and back in Mr. Breckage's motor car for-for-oh dear-for a thousand dollars and-end won it!"

This lost was a wail of anguish. "And-eb, what! won it? Well done, little girl." Benson patted his daughter's shoulder approvingly. "I'm so slad it's off my mind," sigh-

ed Dorothy. "But I don't quite understand." said her father in a puzzled tone, "why, if you didn't want to keep the money, you

didn't return it to Harry."

"I needed it so very much." "Needed it? How so?" "Why, your letter, the one to Auna

Jane, saving that you had met with financial reverses ..." "I see, so Jane told you about that?" "Yes, and she told Mrs. Breckage,

"You don't say so!" laughed Benson. "Dot." he continued, "you're worthy of being in my confidence. For a long time I've been trying to get control of the Anderson corporation. Breckage's was the only influence that kept me out.

Two weeks are he came down here and plenned a com for that time. Therefore I wrote to your Aunt as I did. knowing that she would disobey me and tell Mrs. Breckage. Mrs. Breckage told her husband, of course, and he secure in his supposed knowledge that I had been defeated by his crowd, extended his vacation by a week. That week was met encorb, and I guess we needn't worry short entting down expenses yet

a while." "You elever Dad!" laughed Dorothy. "If I give Harry beck his check, you can afford to make it up to me."

"Hereafter, whenever you want a little thing like a thousand, you may come to your old father for it; he's not out of the ring yet," said Jim Benson chuckling with keen delight.

Training Under Pressure

Did you ever realize that the finest characters in the world have been trained under the most exacting, the most exasperating, the most unkindly conditions.

Just as the fire consumes all the dross, everything but the pure gold, so hardships, misfortunes, sorrows and disasters clarify and purify character. Many of the strongest men in the world have suffered most, and, no doubt, most of them felt that what they were passing through were misfortunes that were taking a great deal out of them and perhaps ruining their chances in life. Just as the storms and tempests toughen the fibre of the oak which stands alone on the hillside, while the sapling protected in the thicket is soft and mongy, so the fibre of the man who is trained in the school of adversity is toughened.

Monumenting Canada

THE GREAT WORK WHICH IS BEING ACCOMPLISHED BY THE INTERNATIONAL BOUNDARY SURVEYS.

By Oscar Y. Brown

The International Boundary Surveys! There is something new in the very term. How many Canadians know anything of the existence of such a body or of its work! Yet the personnel of the organization, man of strength and purpose, and the character of its duties, often perilous in the extreme, are highly deserving of public attention and recognition. Under these circumstances the accompanying story, telling of "Menumer"ing" the international boundary line between Cauada and the United States will be of special interest.

gotten idea of one little phase of the but as an example of the difficulties be-

work. The nurpose, the nature, the setting those whose work it has been

THE International Boundary Surveys! How little the words mean to most Consdians-yes even to those of us who credit cursolves with a natrictic and consistent interest in the affeirs of our native land. Now and then our eve is caught and held for a moment by some brief journalistic notice. Boundary survey porties have gone north to the Ynkon sout to New Brunswick or west to the woody mountains of British Columbia. Perhaps it is something half homorous in min-the tale of a surveyman's wild flight from an imaginary bear, or the teming of a real one. Perhaps tragical—the succinct story of how some treacherous snow cornice vawned under the weight of one young man down-launching him 2,000 feet to snow-buried death at the bottom of a suning ravine in the Canadian Rockies. One moment the eye is caught and held, but only a moment -inst long enough to convey to the mind some fragmentary, seen-to-be-for-

significance of the whole scheme are for from congrally realized

Long before the settlement of the Alaska boundary dispute, long before Daniel Webster's trimmph over Lord Ashburton, in 1842, disputes had arisen regarding the legal international boun-Acry between Canada and the United States By a treaty of 1783 the bennderies of the United States were defined as beginning on the east at the mouth of the St. Croix River, and ascending that river to its source. Soon after disnote arose as to which river St. Croix was meant-there being at that time three or more of the name-end in 1794 commissioners were ennointed to tended St. Croix. Four years later the commissioners reported in favor of the stream which now bears the name, and constitutes the southeastern boundary of New Brunswick. This instance is not given on account of its importance,



to define the international bounders.

the overership of certain ports of were never very sure as to whether

Now, at Inst. however, the con-

ing aronging and arbitration is clearture. On June 3, 1998, a tresty between work has already been accomplished The survey is conducted jointly by Cacommission consisting of Dr W F King, Canada's chief astronomer, and Survey. Each year since the passage of the treaty, narties, led by surveyors

bave worked amirahly along different coast, god in the north on the 141st meridian, and other parts of the Alasha boundary. From the very outset he archious and often higardous work has been emulacied with the greatest international amity, and without duplication of labor. How is the boundary, Some will oak. How is the traveler to know when he steps from the United the Legudery line is mythical as the unitl wall? No, it is not, and if the

move the truth of this assertion, he can do so without any very great difficulty

by first finding the 49th parallel somewhere in the plains of the west. then taking a stroll of a few bondred vards along in either direction. It doesn't to the 49th Either

arrive at proof in





slab he is in a republic, as the words—the International Waterways commis-United States, deeply graven on that sion, and with that Dr. King and his side will indicate; north of that slab he lettered on its Arctic face, that he is in the Dominion of a great empire. South of that slab the American fugitive from justice can be borne off by the sheriff to engree the demands of his country's law: north of it the officer panel first prove to the satisfaction of Canadian justice, his right to demond the of-

MONEMENTS AT PRINCIPLY INTERVALS. The monuments originally planted along the 49th were of earth and stone. built up to resemble a Scotch cairn. When the re-survey of the line was made in accordance with the new treaty, however, these easily destructible marks were replaced by the more enduring east iron ones. In mountainous or forest-covered areas slabs of bronze instead of iron are used as these are less easily smashed or over-turned by the rolling of meks or the falling of trees. The distance between monuments varies considerably with the noture of the country, the general eniding rale being that one should be visible from the next in line. Where the boundery line runs through the middle of a stream or body of water, the monuments are put up along the shore, with markings on them to mide surveyors in exceptaining their local relation to

fender.

the international divide On the Ouebec-Maine boundary line surreging and monumenting has been completed along the St. Francis river: considerable work has been done in the forest to the west of it, while more than St. Croix to the St. Lowrence has been covered on the New Brunswick and Onehee lines. Two or three more secsons will see the completion of the work in the east. Along the St. Lawrence and through the Great Lakes-a stretch involving great fishing and shipping areas—the houndary deline-

men have no concern. It is in the west however that the anatosi awas have been covered. Along

the Red river the resurrey has been completed. The prairie farmer no longer decides the land of his residence stones. To make perfectly certain that he is in very truth a Canadian resident lot he has only to find the nearest iron post, and there's sure to be one not many vards distant.



One section along which we work from the Lake of the Woods to Soperior The boundary here keeps to waterways, but its course has never been accurately surveyed, mapped or monumented. Survey parties will start work on it pext spring. To survey it howover, will not be an easy task for the reason that the country is covered with forest, and has few high points from which to take observations.

As in the mountainous regions of boundary between Canada and Alaska The greater part of the Alaska houndary has been thoroughly gone over. Along the coast strip adjoining British

ation has been placed in the hands of Columbia there yet remains about one

season's work. The 141st meridian. dividing line between Alaska and the Yukon, has been covered away up into the Arctic circle so that one more season will see it completed to the icehound coast on the north. At its southern extremity about 90 miles have still to be gone over in the wild, moun-

tainous region of the St. Elias Alps. NATURE OF THE WORK.

From these facts the reader may have eleaned some idea of what has already been accomplished and what yet remains to be done. From them however, he can have received very little knowledge of the nature of the work carried on by the twelve raddy Cons. dian houndary surveyors, their American co-workers, and the parties of husky men who set their camps under the heautiful stars in wilds far removed from the centres of civilization. The herards the triple the thrills of the took-and it has not a few of themcan only he learned from one of these





Guide on summit of Manual Daily. are not great talkers, these men. Like

most men who spend a large part of the year roughing it in the barbaric wilds of native nature, they tell but little of their experience even in their most loquacious moods. Lucky, indeed, is the Vancouver reporter who pleans from them a varn of some stray adventure with a bear; some narrow escape from death in a capine crevesce. The best and essiest way to min

some clear insight into the nature of the work is that thrown open to me by two kind-hearted surveyors who permitted me to look through their albums of photographs taken on several survevs along the Alaska line. Some would almost do for illustrations to articles on Alpine climbing: from others, one would indee that the princinal work of the Boundary surveys is the felling of forest trees. Both are merely illustrations of different phases of the largely diversified duties of a houndary surveyor and his men

Early in May the surveyors twelve

situated at Ottown presmine their part. ies....from twelve to 20 men nuder each surveyor-and set out for the east, the west or the north, whichever it may happen to be. These Alaska-ward bound, take train to Victoria, B.C., and from that beautiful harbor proceed by boat to Skagway. Each party takes to the north sufficient provisions and equipment for the season's work. From Skagway they proceed with pack trains over mountain and through forest to that part of the country in which their season's work is to lie. Through the silent forest ring the buoyant strokes of the sturdy exemen as they widen the clearing for a night's encampment. The line at last! a cheer rises from their throats as they stumble on the

monument marking the end of their last sesson's work. Perhaps it stands at one end of an alley of clearing bewn through the forest. Perhaps, on the side of a Heaven-kissing hill. In the first case the axerom must shoulder their propous and lay low a few more of their un-resisting enemies. Lives of



On the Moont Buly ridge. trees are not spared, although there is

no unnecessory destruction of natural resources. The rule that one monument should be visible from the next in line often makes it necessary to cut n swathe through the woodlands. Often also, it is necessary for an observation that a high peak he scaled, or the side of a steen precipice. "Excelsior," cry the men, and up they so till the signal stands on the ninnocle.

Hand in hand work the Americanand Campliane Sometimes the parties cump side by side, each, however, working on a different section of the line. for no labor is wasted in the survey of the homolory. Where necessary, however, the parties senounte widely. Then fair tweetment. Simularily one of the Americans comes over to the comp of the Dominion's surveys. Throughout the week there here been no internetional complications between the hourdary workers. Fraternal co-operation



A camp fire at Shertmock Loke Valley

has right along been the prevailing There is little probability that the results of this boundary survey will be ever destroyed. Earthquakes, slowly moving packs of ice and snow, or the down-crashing of huge trees may topple some of the monuments, but no seismic disturbance, no avalanche, no forest accident can affect more than a few Resides, record is kept of the position of every monument, and every part of the line is mapped with the finest topographical detail. Two sets of these boundary maps go to Canada, two to the United States In the strong hores of both notions they shall he to quell all future disputations on the score of

Uncle Som's perthern limit.

Dangerous? The word was used before. Yes, the duties of boundary survey parties-especially these in Alaska -often lead them into positions that are senoned with peril. And yet, with all the miles of country that have been constant in the few north, only one life. has been lost. The one who perished was a young man panied Shepherd from Nanaimo R.C. under whose feet victim into the ravines. When one considers that for the creetion of every skyscraper in New York, one or more men are sacrificed the record of the lare boundary surveyors in Aleska becomes even more creditable and more wooder-

AND SOMETIMES DANGEROUS, TOO.

ful in one's eyes. There they have been working in the midst of dangers greater and more imminent than those which isopordise the laborer on the tall building; working, too, for several years-oud only one fatality! Matterhorns have been scaled; men here been lowered over cliffs with only rope-lines to save them from infinity: ledges of snow that might or might not give way have been troversed or avoided; wild enimals have been met by day and night, have been shot, trapped for food or allowed to escone-and only one fa-

taliful. Do you wonder that Dr. King The sesson's work in the field finishod back to civilization on the surveyors and their men Parties disintegrate. the surveyors returning to their offices of Ottown: the redmen, chainmen and exemen dispersing to centres where they may most wisely or unwisely rid themselves of their season's earnings. After a summer in the isolated wilds,

it is good to spend one's winter in a gay city Newer do the etreet illuminations seem more alluring than after the play of the Alaskan aurors, or the weird gloor of the midnight sun; never does a good comic opera have more fairylike awartness than when one has seen no somen eave Sonases for months pest -never does a dance seem more dreamily exotic. By the surveyors that part of the winter depoted to confined labor is spent in systeming and arrenging the results of the summer's work.



Church service around come fire.

Psyche and the Pskyscraper

By O. Henry

this thing; you can go to the top of a high building, look down upon your fellow-men 300 feet below, and despise them as insects. Like the improposible black waterbugs on summer ponds, they erawl and circle and hustle about idioticelly without aim or purpose. They do not even move with the admirable intelligence of ants, for ants always know when they are going home. The ant is of a slowly station, but he will often reach home and set his slippers

Man, then, to the housetopped philosopher, appears to be but a creeping, contemptible beetle. Brokers, poets. millionaires, boothlacks, beauties, hodcarriers and politicians become little black specks dodging higger black

station.

specks in streets no wider than your thronb From this high view the city itself becomes degraded to an unintelligible mass of distorted buildings and impossible perspectives; the revered ocean is a duck nond; the earth itself a lost golf ball. All the minutize of life are gone. The philosopher gages into the infinite heavens above him and allows his soul to expand to the influence of his new view. He feels that he is the beir to Eternity and the child of Time. Space, too, should be his by the right of his immortal heritage, and he thrills at the thought that some day his kind shall traverse those mysterious nerial roads between planet and planet. The tiny world beneath his feet upon which this towering structure of steel rests as a spack of dust more a Himologon mountein....it is but one of a countless num.

ber of such whirling atoms. What are

IF YOU are a philosopher you can do the ambitions, the achievements, the pultry conquests and loves of those restless black insects below compared with the screne and awful immensity of the universe that lies above and around their insignificant city?

It is guaranteed that the philosopher will have these thoughts. They have been expressly compiled from the philosophies of the world and set down with the proper interrogation point at the end of them to represent the invariable musings of deep thinkers on high on while you are left at your elevated places. And when the philosopher takes the elevator down his mind is broader, his heart is at peace, and his conception of the cosmogony of creation is as wide as the buckle of Orion's

But if your name happened to be

Daisy, and you worked in an Eighth Avenue candy store and lived in a little cold hall bedroom, five feet by eight, and earned 86 per week, and ate tencent lunches and were nineteen years old, and sot up at 6.30 and worked till 9, and never had studied philosophy. maybe things wouldn't look that way to you from the top of a skyscraper. Two siched for the hand of Daisy the unphilosophical One was Joe who bent the smallest store in New York It was about the size of a tool-box of the D. P. W., and was stuck like a smallow's nest assisted a corner of a downstown abvacrance. Its stock consisted of fruit condies newsponers some books cigarettes and lamonade in senson. When stern winter shock his conmoded looks and Joe had to move himself and the fruit inside there was evactly room in the store for the nrorelator his wares a stone the size of a

vinegar cruet, and one customer.

Joe was not of the nation that keens us forever in a furore with formes and fruit. He was a canable American youth who was laying by money, and wanted Daisy to help him spend it. Three times he had asked her.

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his love song; "and you know how bad I want you. That store of mine sin't very big, but----"Oh. ain't it?" would be the antiphony of the unphilosophical one Why. I heard Wansunsker's was try-

ing to get you to sublet part of your floor space to them for next year." Daisy passed Joe's corner every morning and evening

greeting, "Seems to me your store looks emptier. You must have sold a package of chewing gum." "Ain't much room in here sure." Joe would answer, with his slow grin, "except for you, Daise. Me and the

store are waitin' for you whenever you'll take us. Don't you think you might before long?" "Store!"-a fine scorn was expressed by Daisy's uptilted nose-"sardine box! Waitin' for me, you say? Gee! you'd

have to throw out about a bundred pounds of candy before I could get inside of it. Joe." that," said Joe, complimentary. Daisy's existence was limited in every way. She had to walk sideways between the counter and the shelves in the candy store. In her own hall bedroom coriness had been carried close to cohesiveness. The walls were so near to one another that the peper on them made a perfect Babel of noise. She could light the gas with one hand and close the door with the other without taking her eyes off the reflection of her brown pompedour in the mirror. She had Joe's picture in a gilt frame on the

dresser, and sometimes-but her next

thought would always he of Joe's funny

little store tacked like a soap box to

the corner of that great building, and

away would go her sentiment in a breeze of kurchter. Daisy's other suitor followed Joe by

several months. He came to board in the house where she lived. His name was Dabster, and he was a philosopher, "I out money seved up. Dairy." was Though young, attainments stood out upon him like continental labels on a Pressic (N. J.) suit-ease. Knowledge he had kidnapped from evolopedias and handbooks of useful information; but as for wisdom, when she passed he was left spiffing in the road without so much as the number of her motor car. He could and would tell you the proportion of water and muscle-making

properties of pees and wal, the shortest rerse in the Bible, the number of "Hello, Two-by-Four!" was her usual rounds of shingle nails required to fasten 256 shingles laid four inches to the weather, the population of Kankakee, Ill., the theories of Spinom, the name of Mr. H. McKay Twombly's encound hall footmen, the length of the Hoosac Tunnel, the best time to set a hen, the salary of the railway post-office messenger between Driftwood and Red Bank Furnace, Pa., and the number of

bones in the foreleg of a cat.

handican to Debater His statistics were the sprigs of parsley with which he garnished the fesst of small talk that he would set before you if he conorived "I wouldn't mind an even swap like that to be your tasts. And again he used them as breastworks in foraging at the boarding-house. Firing at you a volley of figures concerning the weight of a lineal foot of bar-iron 5 x 2% inches, and the average annual rainfall at Fort Snelling, Minn., he

This weight of learning was no

would transfix with his fork the best piece of chicken on the dish while you were trying to rally sufficiently to ask him weakly why does a hen cross the Thus, brightly armed, and further equipped with a measure of good looks. of a bair-oily, shopping-district-at-three-

Belgium added." in-the-afternoon kind, it seems that Joe. of the Lilliputian emporium, had a rival worthy of his steel. But Joe carried no steel. There wouldn't have

One Saturday afternoon, about four o'clock, Daisy and Mr. Dabster stopped before Joe's booth. Dabster wore a silk hat, and-well, Daisy was a woman, and that hat had no chance to get back in its box until Joe had seen it. A stick of pineapple chewing gum was the ostensible object of the call. Joe sup-

plied it through the open side of his store. He did not pale or falter at sight of the bat "Mr. Dabster's soing to take me on top of the building to observe the view." said Daisy, after she had introduced her admirers. "I never was on a skyscraper. I grass it must be awful nice and funny up there."

"H'm!" said Joe. "The panorama," said Mr. Dabeter, 'exposed to the gaze from the top of a lofty building is not only sublime, but instructive. Miss Daisy has a decided pleasure in store for her.

"It's windy up there, too, as well as here," said Joe. "Are you dressed warm enough, Daise?" "Sure thing! I'm all lined." said Daisy, smiling slyly at his clouded brow. "You look just like a mummy in a case, Joe. Ain't you just put in an invoice of a pint of peanuts or another apple? Your store looks awful

Andrewson ! Daisy giggled at her favorite joke; and Joe bad to smile with her. "Your quarters are somewhat limited. Mr.-er-er." remarked Daheter, "in comparison with the size of this building. I understand the area of its side to be about 340 by 100 feet. That would make you occupy a proportionate space as if half of Beloochiston were placed upon a territory as large as the United States east of the Rocky Moun-

tains, with the Province of Ontario and "In that so, sport?" said Joe, genially. "You are Weisenheimer on figures all right. How many square pounds of baled hav do you think a tackers could est if he stopped bravin' long enough to

few minutes later Daisy and Mr. Dabster stepped from an elevator to the top floor of the skyscraper. Then up a short, steep stairway and out upon the roof. Dabster led her to the parapet so she could look down at the black dots moving in the street below. "What are they?" she asked, trembl-

ing. She had never before been on a height like this before. And then Dahster must needs play the philosopher on the tower, and con-

duct her soul forth to meet the immensity of space. "Bineds." he said, solemnly. "See what they become even at the small elevation of 340 feet-mere crawling insects going to and fro at random. "Oh, they ain't anything of the

kind," exclaimed Daisy, suddenly-"they're folks! I saw an automobile. Oh, gee! are we that high up?" "Walk over this way," said Dabster. He showed her the great city lying like an orderly array of toys far below. starred here and there, early as it was,

by the first beacon lights of the winter afternoon. And then the bay and sea to the south and east vanishing mysteriously into the sky "I don't like it." declared Daisy, with

troubled blue eyes. "Say we go down." But the philosopher was not to be denied his opportunity. He would let her behold the grandeur of his mind. the half-nelson he had on the infinite. and the memory he had for statistics. And then she would nevermore be content to buy chewing gum at the smallest store in New York. And so he began to prate of the smallness of human affoirs and how that even so slight a removal from earth made man and his works look like the tenth part of a dollar thrice computed. And that one should consider the sidereal system and

One of them we saw might have been

the maxims of Epictetus and be com-"You don't carry me with you," said Daisy. "Say, I think it's awful to be up so high that folks look like fleas.

"The earth," said he, "is itself only as a cruin of wheat in space. Look up Daisy sazed upward apprehensively. The short day was spent and the stars

were coming out above. "Yonder star," said Dahster, "is Venus, the evening star. She is 66, with your hand. Three years for their 000,000 miles from the sun." "Fudge?" said Daisy, with a brief flash of spirit, "where do you think I come from-Brooklyn? Susie Price, in our store-her brother sent her a ticket

three thousand miles The philosopher smiled indulmently "Our world," he said, "is 91,000,000 tic?" miles from the sun. There are eighteen stars of the first magnitude that are 211,000 times further from us than the sun is. If one of them should be extinguished it would be three years before we would see its light go out. There are six thousand stars of the sixth magnitude. It takes thirty-six years for the light of one of them to reach the earth. With an eighteen-foot telescope we can see 43,000,000 stars, including those of the thirteenth magnitude, whose light takes 2,700 years to reach us. Each of these stars-" "You're lvin'," cried Daisy, anorily, "You're tryin' to scare me. And you have: I want to so down!"

She stamped her foot. "Arcturus......" began the philoso. Joe whenever you want me."

pher, soothingly, but he was interrupted by a demonstration out of the vastness of the nature that he was endeavoring to portray with his memory instead of his heart. For to the heart-expounder of nature the stars were set in the firmsment expressly to give soft light to lovers wandering happily beneath them; and if you stand tiptoe some September night with your sweetheart on your arm you can almost touch them

light to reach us, indeed ! Out of the west leaped a meteor. lighting the roof of the skyscraper almost to midday. Its fiery parabola was limned against the sky toward the east, to so to San Francisco-that's only It hissed as it went, and Daisy arreamed. "Take me down" she cried vehe-

mently, "you wer mental arithme-Dahster got her to the elevator, and inside of it. She was wild-eved, and she shuddered when the express made its debilitating drop.

Outside the revolving door of the skyscraper the philosopher lost her. She vanished; and he stood, hewildered, without figures or statistics to aid him. Joe had a bill in trade and by squirming among his stock succeeded in lighting a cigorette and getting one cold foot against the attenuated stove. The door was hurst open, and Daisy, laughing, crying, scattering fruit and candies, tumbled into his arms,

"Oh. Joe. I've been up on the skyscraper. Ain't it cory and warm and homelike in here! I'm ready for you.



The Motor Boat In Canada

IT IS THE FORERUNNER OF RAILWAYS AND CIVIL-IZATION IN THE OPENING UP OF NEW DIS-TRICTS OF THE GREAT DOMINION

By H. Mortimer Batten

Viewed in the broadest sense the motor boat is a nation builder. Particularly is this true in a country such as Canada, which relies so largely upon her waterways as a means of transportation. In this Dominion the motor boat is playing no small part in the great work of development which is being presecuted. In the opening up of new country it has proved the foregunger of railways and slythization. All Canada, then, should hall the motor boat, particularly in the summer season, when in accept any reacet district one way her on a still evening the familiar "abuncher" of a gasolize laugch wending its way through the lakes.

explored "the countries of Canada and Hochelaga, which form the end of Asia towards the west." Canada has been known as the home of the cance, but today it might almost as adequately be termed the home of the gasolene host. Not for a great many years has an invention been greeted by Canadians with so much enthusiasm as the new power craft. It is difficult for the city man to

conceive to what extent Canada relies upon her weterways as a means of transport, but without them the progress of the Dominion would be slow indeed. When the spring comes, and the ice ones from the lakes and rivers, navigation begins. Steamers of all sorts and sizes start to plough the inland seas, and a score of great industries which have remained practically dormant throughout the winter, again leap into

Picture a region many thousands of miles in extent, timbered with forests so dark and dense as to defy penetration. The unending chaos of sprace

SINCE the days when Jacques Cartier and cedar is severed by great ravines. and here and there one comes upon a string of lakes or a wide waterway. Along its margin, many miles apart, are dotted settlements, and the inhahitants of these outposts of civilization are solely reliant upon the water for

transportation. The steamers, of course, navigate the larger lakes and rivers, but as anyone who has traveled by them knows. the service is often slow and unreliable. and the charges abominably high; while the smaller lakes and rivers are only navigable to smaller craft. Before the appearance of the gasolene

boot steam launches were used by many of the outlying settlements and lumber camps, but to-day there are few steamboots left. Not only were they expensive and cumhersome, but in comparison with the pasolene hoat they were altogether unsuited for the work

required of them. Very often it happens that a boot has to be carried a great distance by railway, and finally portaged by instal-

nents over many miles of the appalling woodland trails before reaching its destination. This is a tedious and expensive business, and as the outlying camps constantly more their operters they long felt the need of a compact and

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nowerful larench The motor host has filled a great vaconey, and is now an important factor in the opening up of fresh country. Let us take for example New Onterio, with its vast mineral wealth end growing nonelation Here the T & N O Rolls way thrusts its single span of metals far into the heart of the interminable forests, where a few years ago the white man was a creature almost unknown. It store at length at Cobalt, and Cobalt and its adjoining settlements together resemble a giant octopus, their many tentacles of civilization spreading out in all directions through the woods. They are the centre of a vast network of lakes and rivers, alone the banks of which tiny settlements raising with life, have surroug into existence. Men come and on from them daily. Millionaire speculators, anxious to "see the show," or to invest in town lots: commercial travelers and many other hasiness men each of them doing something towards the advancement of the new settlements sten off the reilway et Cobalt or Haileyhury, and are convey-

woods by the all efficient motor hoat. Leaving Hailorbury behind the rail. way thumps and rocks its way northwerd and wastward till it arrives at lost at Population the Klondyke of the present century. Stepping from the stetion platform one sees, two miles across the lake, the white buildings of Golden City, with its Benks and Hotels and Recorder's Office. To the left, also bordering the lake. Potsville seems to be a city to itself, so closely do the woods

ed swiftly and comfortably into the

hide it in their shedows. Between the three cities, however, a counters stream of traffic passes to and fro ecross the lake. Recy motor bosts. brown and white and green, flash in the supehine, and with poering exhausts ply between the landing stages. There are four or five on the lake at the same time, yet each is fully loaded, and at the stages four or five more are filling penidly. The owners of these boats have out their fares to exactly one-fifth of what they were a year app yet they are still making good profits.

Not very far from Porcupine City, flowing in a south-easterly direction. extends the Mattagemi River. It is believed by many that the gold "etreak." located at Porcupine, runs across Canada for over three thousand miles, termineting at length in the Klondvke. Be that as it may, prospectors are still beading in that direction for the settlement, and sold rushes are constantly taking place. All along the Mattagami River, "prospects" are at work, and the exsolene bost is playing no small part in opening up this new country.

Almost every mine and "prospect"

slong the lakes and rivers possesses its own boat, which carries mails, provisions, machinery and horseflesh. It is really surprising what leads these hoats will take through the rapid waters. It is no uncommon sight to see a twentyfoot launch pushing or towing four heavily loaded scowe against the powerful current at a good six knots an hour. And what can be said in favor of the pseolene boat for Ontario can be said also for all well watered portions of Canada and British Columbia. Think what chesp and repid transportation must mean to a growing settlement.

clinging avidly to the outside world only by the slender nerve of the telegraph wire! The gasolene boot is to-day the forerunner of the milway—the forerunner of civilization. Penetrating for into the lakes it is opening up new country. and when once settlement begins the

railways, when possible, ere not slow in bringing up the rear. Often, when in the heart of the woods, where one little expects to meet white compenions, one is surprised to hear on the still of the evening the far off "chur-chur" of a resolene boat wending its way through the lakes. There is ecarrely a hotel in the lake districts that nowadays does not possess its own launch, and to the sportsman their services are invaluable. To the prospector too they are a great belofor tethering his come to the gunwale he can ride up stream in comfort till the rapids ere reached, and not only save many miles of tiresome neddling but accomplish his journey in much shorter time than if he were reliant solely on his canon

The popularity of the gasolene boat has, of course, opened up a new line of employment for many hundreds of wonths in Conside Good motor machanics are at a premium, and the wages paid at the outlying camps are surprisingly high. The figure varies occordingly from \$2 to \$4 a day, everything found, and on passenger work the driver is sometimes allowed commission, which generally increases his salary. There are, however, a great many impostors in the business, with the result that motor boot owners are often extremely wary whom they employ. References, therefore, ere sometimes useful, though the youth who has once acquired a good reputation-who at all costs can keep a boat running is more of fair new and resular employ-

ment during the summer months The man who is first into a new comptry with his boot is almost certain to make immense profits. An old prospector, with whom the writer is noquainted, seriously injured himself in the spring of last year, and was unable to carry on his strenuous employment. Having about five bundred dollars ethis disposal he invested at the advice of his friends, in a small gasolene bost, and had it conveyed to the river by which his forest-murooned shenty stood. He has now abandoned prespecting for good, and taken to the passenger hoat business. He employs four hends, and is the proud owner of three feet and

powerful launches. His first creft paid

for itself in less than a month, and dur-

ing the bright of the sesson he cleared no less than from thirty-five to fifty dollars daily

Similar success foregod many others among them being a half broad force. man who lived in the backwoods of British Columbia He possessed a small rowing boat, and earned his living by conveying pedestriens across the river by which his shanty stood. He chareed ten cents per pasenger, end one day it occurred to him that if he could only convey them nine miles up stream it would save them meny hours of tedious tramping.

Forthwith, he invested in a six horse power sasolene engine, and converted his old bost into a nower bost. His surprising success fired others with enthusiasm, and to-day there are no less than nine houts running on the same route. The helfbroad however retains possession of the central landing stoon and he himself remains comfortably at home bunting up nessengers while

Lost year a great many accidents on curred, and several lives were lost through gasolene boats taking fire or foundaring in mid water. Accordingly a law was introduced enforcing owners of motor launches to equip their crefts with efficient life-seving apperatus. But in spite of this precaution many sad aceidents occurred, and on Porcupine Lake, late in the summer, the writer

witnessed a heartrendering tracedy. A youth, in charge of a very fast boet, was towing a heavily loaded scow from the Golden City landing stege, and had taken his seat at the extreme and of the best in order to been the nrypeller well under water. Scarcely had he come fifty yeards when the tourline broke with a loud report, and the host. relieved of her load at once shot forword. The driver lost his balance end fell beckwards into the water, much to the amazement of the crowd of onlook-

was happening, the nowerful boat, now

ers by the landing stegs. But before envone could green what

A day or two after this sad bannening, my partner and I were involved in an amusing though somewhat examperating mishap. It occurred on the same lake, and cariously enough, the same boat, the "Wisard," played an active

We were hitting out for the woods, and had several days' provisions with ns which we looded into the smell launch which was to convey us across the lake. The heat contained several Degree on well as corrections and as we left the landing stage, the "Winard" humped us somewhat violently. Nothing was thought of it, however, till we reached the middle of the lake, when enddenly a fountain of water was ob-

floorboards. The driver at once headed for the nearest sbore, almost a mile distant, but are we had reached it the bost half filled

The Italians at once leant on to the seats, and started shouting and waving their arms in a frenzy of excitement We were sinking rapidly, and in imminent denger of cancing, but the more obvious the peril become the more excited became the Degos At length we saw the "Wisord" racing remidly towards us but evidently

the driver misjudged the distance, for the Dagos was dislodged and fell into the water. My companion swore he could hear the fellow's acresme till he was two feet below surface. We gained the "Wigard" just as our

own boat sank, and looking round saw our packsacks and provisions, sailing peacefully on the water. It seemed that, on that trip, we were

in for an excessive run of bad luck, for on our return journey via the Mattaserved spurting upwards through the gami River the "Lily of the Wilderness" severed her propeller shaft, and all one long, chilly night we huddled in her bows while the tide carried us

homewards.

Tagged With Other People's Estimates Of Us Do, you over realize that neonle who know you are constantly siving you up, that when you meet them you really sten upon the scale of their judgment and are weighed and measured by them on some sort of an imaginary scale? For example, people who know you may estimate your industry as a hundred, but your rough uncouth manner ten or fifteen. They may estimate your ambition eighty but your real judgment at twenty-five. Your intentions may be well up the scale while your courage very near the bottom. If we could only get into the habit of taking an account of stock of ourselves, of estimating ourselves as other people estimate us, we might very materially raise our lowest marks, which indicate our markness

Jackson's Scoop

By W. A. E. Mover

JACKSON, the "policeman" on the Daily Ness, was quite well aware that his paper was fighting the police. He had been made painfully eternisant of the fact on numerous occasions, when sundry stories in the course of the night's news went wide of him, which he would have got had his paper and the heads of the blue-coated minions been on visiting terms

Not that the enmity had extended to Jackson, himself, particularly, The police chief, the captains, the chief of detectives, were all on friendly enough terms with him, but nevertheless it was quite apparent that Jackson was a marked man at nolice headquarters. They may have thought a lot of Jackson, but they did not admire his paper's attitude towards the nolice. The instice of The News' position is another story. Joekson whose duty in line with

other reporters was to be "next" to

everything of importance that went on at police headquarters, and to be especially alert just before press time-a period at which most other people are deeply immersed in the condition which, hours later, induces a reflection on the problem of what material constitutes dreams-found being a late duty police reporter on a paper which had its kniver out for the nolice no downhill ich. Frequently he was wont to group in anguish of spirits and in accents more emphatic, too, when a feverish run through the rival shorts apprised him that he had been scooped again-besten out on small items which he should have got, and which he didn't see how he could have missed; inst the little things that are as iron entering into the soul of the trained news-

paper man-spree-inspiring and suicide

provoking. For, if there is one class of humanity more than another which suffers from the attacks of the little blue devils it is the newspaper fraternity. Such small causes bring them on.

Atkins, the city editor, who had gone up to the desk from cubdom, and knew all about it, sympathized with Jackson. He had been through the mill himself. But his sympathy didn't help Jackson much, particularly in view of periodical evelonic visits of the "Old Man" to the local room, to the accompaniment of short, sharp queries hurled in the city editor's direction, as to why certain news stories relating to arrests, burglaries and such like, had not been favored with a position in the columns of The News-also as to who was looking after the police, anyway? After which, hasty exit of the "Old Man" and a subdued and mournful atmosphere settling thickly over the local room. Jackson's state of mind, if he hannened to be among those present upon the occasions mentioned, was hardly likely to be improved. He knew it wasn't his fault, yet at the same time he was incitly aware of the fact that some of the blame came his way.

The Boss-otherwise the Old Manotherwise the editor-in-chief-was a newspaper man in theory, not in actual practice. It was very seldom that be noticed when anything was missed by the paper, but when he did, there was usually this kind of netty dickens to nov. This was the subject of common and indignant remark in the local room. It was the more calling to editors and reporters alike, by reason of the fact that the hig kicks of the "Old Mon" were nepally directed at things

which didn't really matter anyway. When there was a real beat, and no excuse to offer, it invariably went unnoticed. It depended on the editor-inchief's state of mind. At the same time the guilty ones trembled visibly for days after, whenever the door opened thing like this: suddenly or a strange step scended. But the news and city editors made up for the Old Man's neglect in this respect. They were old, time-tried newsnaper men, and knew when to mise a row-and how. Nothing quite equals the gloom which settles over the local room of a newspaper office just after a big bent by its hated, but respected

Juckson was sitting morously kicking his host together on a duck in the chief detective's outer office. He was fulling blue. That morning he had "got it" again, and to make matters were for his peace of mind he had, after liberal reflection, servived at the nonsenting conclusion that perhaps, after all, he might have saved himself had he been wide awake—a conclusion that peace likely to also work.—

vate his spirits very much. And then, to can the climax, he could feel instinctively that there was something in the sir-something "deing"something hig. Yet he could not get even the faintest inkline of what was going on. He was as sure of it as that he was sitting there on that deak. His newspaper instinct told him so irresistibly-every surrounding shouted the fact to him. If he had had nothing else to on by, the conscious looks of the other newspaper boys would have given away the secret just as plainly as words could tell. Their pretence of languidness-formed carelessness-began to annov Jackson. He knew the sign-knew they were only waiting for him to clear out, so that they could give him the slipand get away on the grand sensation reserved for the front pages of papers which were too discreet to ruffle the feelings of a righteous police head.

Jackson's peace of mind would not

have been improved had be been pri-

vileged to overbear a little convensation in the chief of detective's inner sametum a few minutes before he came in. It was between the chief and several of the other police reporters, and the chief in continus tones was detailing some-

"Now, look a-here, you fellows, this thing is coming off to night. Were going to pull it off around midnight, but 'I've reasons few runting you to hold it for your afternoon editions. You month's ask me why, becased I won't sell you, but I'm mighty particular about this, and I'll just tell you thin: The man who gives it away and desent't do what I saw will par for it. D've un-

densand?"

The chief glared so menscingly at the group of reporters that some of them nettually shuddered.

"I suppose you'll be wondering why I put you next, now," he went on Well, it's a big thing, and I want you there-that's all I want the police to get the full benefit so's to show people we're attending to business. We've been getting some hard knocks. Now, another thing: I guess The Neur will have Inches on here to night the same as usual. Mind, not a word to that guy -not a word. I tell you, to him or anybody else on the paper. We're going to show The News bunch they can't monkey with the police just as they like. You can quietly tell all the other hove but Jackson and The News are out, remember."

The reporters field out in time to be carelessly hestowed about the labby when Jackson, The News man, came in. They all pittle Jackson in a way, because it's not in the instruct of things for a namber of newspaper reporters to a very good reason. A reporter, if it is nown unusual way he gots hold of an exclusive news story, will hap his scort. In the contract to the treat like grind dath, but when it comes to barring a member of the fratentily from a legitimate place of

going to the fountain head of informa-



He drew Yorkison towards him and cold something in a low tare,

Jackson's case was a peculiar one though, and the police squad saw that no good could come to them by flying in the face of determined fate impersonated in the individuality of the au-

tocratic head of the city detective department. "Sorry we've got to throw the poor devil down," mumbled Davis, of The Express, to the man nearest him. "Guess there's no way out of it.

though." Jackson, as he was in duty bound. presently entered the chief's room. To his modest query, "Anything on, Chief?" the august individual at the desk merely vouchsafed him a casual "Nothing doing, Jackson, sorry to say"

and then pretended to be very husy with some papers. Jackson stood tentatively at the deak a moment or two, but seeing no further overtures from the chief were in prospect, he quietly walked out, and passing through the group of press men, went down the stairs. He had made up his mind to so back to the office and confide his suspicions to the city editor. If his fears were realized it could at least he said that he had done his hest hy potting his paper "grise" to the situation, and the whole staff could be on the elect about the city for anything

He was just stepping down the stone stens in front of headquarters when a stalwart figure home into view It. proved to be Jenkins, a plainclothes, men whom Jackson knew well enough to pass the time of day.

"What," ejaculated the policeman, involuntarily, "oning away so corly, when there's so much on to night?" Jackson. dying man-like, grasped eaparly at this most tangible straw At last he had a clew to the mystery, and

he ween't oning to let it slip. Foreibly reshing the estenished offirer back into the shadow of the building for fear of heing seen, the reporter began breathlessly: " Now, see here, Jenkins, you're a good fellow and I've fixed you up once or twice. Of course, you deserved everything I did for you and there may be opportunities, yet, Now, I know it's against orders, but tell me what's going on to-night. know there's something hig in the wind.

but the ter, chief has elected me for the gost. I'm to be thrown down." "It's all my job's worth," began Jenkins, seeing light at once, but the

reporter interrupted him. 'No, it isn't, old man. You can bet your sweet life I'll never tell who gave the thing away, and you know yourself that I shouldn't be thrown down this

Jenkins thought it over a moment or two. He liked Jackson: also liked the few little favors Jackson had done for him in connection with dixers cases Jenkins had been on. He know the beads of the police were dead set against The News man, and a high sense of jus-

WKY."

tice in him rehelled against it all, well knowing as he did that Jackson, personally, had no share in the fault "Well there is something on " he said finally, "and I sure don't like to see you heat, so I'll just risk my livin' and put you on. He drew Jackson towards him and

said something in a low tone, glancing apprehensively around the while "Mind the place, now," he added quietly, as he started away. "I know it's a sure thing, because I got it stmight, though the head push are keepin' it mighty quiet. Be on hand at about half-past twelve and you'll own the whole thing."

It is surprising how quickly one can be transported from the lowest depths of the blues to realms of perfect ecstagy. Jackson was in the deepest depths just before-now in a moment he was back into the world again; was viewing mundane things through glasses of richest hue. Every sense throhbed with excitement. He realized that now he had something to work upon-that here was an concertunity to burnish up a reing the lay of the land before " he muttorod on he continuely onesed the gate nutation which had grown rather fadedcoking in the office. Atkins, the city editor was enjoying

and storted up the gravel walkone of those hills which occasionally come in a busy newspaper office, when the telephone on his desk clanged.

"Inchang meaking," come in familiar tones from the other end of the wire. "Say, I think I'm on to something at police. I've been elected for a throw down again, but I got a tip that looks good to me. I'll follow it up anyway. and if I get a story I'll telephone in, becomes the thing's not to come off until "All right, Jackson," the city editor

said. "We'll keep the front page open for you, and if it turns out to be worth while myll be all arrene. Need any help? "Oh. I guess not." Jackson looked at his watch and

found that it was just 11.30-an hour till the big thing was to eventuate. He had plenty of time, even though the address Jenkins had given him would take him away out into the outskirts. But he had his bicycle and could easily make the distance in half the time. He decided to take no chances, however, and getting on his bocycle started off in the direction indicated by his detective

"Guess I'd hetter look for the most likely place to hide," Jackson thought to himself, as he lit a cigarette, "They'll be down here soon enough if the thing tarns out to be anything, and I'd hetter he scarce if the chief's coming. If he cought me around here, he'd put me in limbo in a liff," he soliloquised with

a obmebla

quickly acted upon.

He was turning to cross the street, having hidden his tocycle further up. when he thought he saw the flicker of a light in one of the cottage windows. Prior to that the whole place had been wropped in sombre darkness. An idea occurred to the reporter which he

"If there's a dog around I'm in for " he thought, suddenly. "Dear knows what I might wake up. Passing around to the side of the

homse without alarming does or any other living thing, Jackson carefully reconneitred. The spice of danger in it all served to electrify his nerves. He was enjoying the thing. Weaponless. he had sunched into an enterprize which might rosult in his death hecause he had no means of knowing what kind of desperadoes the police were setting their not to texp. Getting around to the back of the

house, he was immediately confronted by a lighted window. The bright light inside framed a heavy green window shade, and at first glance there did not seem to be much chance of his being able to see what was going on in the kitchen. Stepping very softly, the newsnaper sleuth carefully examined the window to find it there was any sper-His search was rewarded at last. The blind was torn a little at one corner, and through the tear Jackson was able to command the whole interior of the kitchen with his eyes. He took in things

at once rapid glance, and could scarcely

restmin a cry of astonishment at what

he saw. Next moment he had something else to think about. A subdued rumble of wheels on the street caught his eer, and he had inst time to make a dash for the your fence when a heavy hooted policeman holied around the house. He was followed by another, and another, and Jorkson from his none too secure hiding place, saw the cettage quickly surrounded by policemen. Surely, the raid had been well planned, for the occupants of the house had no sign that they were aware of the net thrown around them.

Presently the chief detective and a number of his men came around to the house was straightway heard, followed by a couple of pistol shots, and the chief and his detectives made a desh to the sosistance of the police in the front yard. each man brandishing a beavy Colt's. The fight was short, if shern, Jackson; throwing discretion to the winds and dashing around to the street.

from the opposite sidewalk saw the police thrust their handcoffed and swearing prisoners into the natrol wasgon, and then waiting for nothing for ther, the reporter jumped on to his wheel and dashed up the street as if the

Halting his speed-ordinance-defying pace in front of a drug store. Jackson, in a remarkably short time had the office on the phone, and ress pouring on amazing story into the astonished care of the not easily surprised Atkins. "You're quite sure of your men now.

doubtingly. "Sure's I'm standing been," was the positive reply. "Couldn't be any doubt about it, because I know the old suy as well as I know you. Sits in front of me

"All right, my boy, Pll put a shorthand man to work and we'll take your story over the telephone. Shoot it in as taken to police headquarters in the fast as you like."

The box presses of The News that morning pounded out a great exten edition. Though The News people didn't know it at the time, the front page contained an exclusive story, as well as one of the most sensational the city had seen in years. True to the commands of the chief detective, the other press men had

held their "stuff" in the innocent smposition that the story was safe. The whole city was shocked at the amsning intelligence which plared up at the people from the breakfast table in startling headlines on the front page of The News-

SENSATIONAL ARREST BY THE POLICE Two Eminent Citizena, Who Were Al-

ways Believed to be of the Highest Integrity Caught Red Handed, Making Chanterfeet Bonk Notes Amssing Story of Double Life in This

The double leaded columns undernesth went on to tell in senestional language about the arrest of Silas Cramer, president of the creat K- Bank. and his business associate. Judson Smiles, both eminent financiers, leaders in Wall Street, church workers and men prominent in every benevolent work, who had been caught red handed. printing counterfeit bank notes, in a little cottage on the outskirts of the city. Jackson?" queried the city editor Presses, engraving stones, the whole paraphernalia of a counterfeiting sang. had been found in the place. When the police came, they having had a tip, and had specessfully carried out their plans to eatch the two men at work. Oramer and Smilex had endeavored to escape and had fired on the officers, but were finally overcome, handouffed and

> patrol waggon. The city rang with the sensation, and Jackson not only won back his remutation, but become the ideal of The News office. Even the "Old Man" offered his congratulations, and told Jackson it

was a great piece of work. Jackson-to himself-philosophically put it down to just "bull-headed"

A Square Deal for the Child

THERE IS SOMETHING RADICALLY WRONG WITH CANADIAN EDUCATIONAL SYSTEMS IN THEIR APPLICATION TO THE TRAINING OF DEFECTIVE CHILDREN

By Dr. Helen MacMurchy

This is a plen for a square deal for the child. The place to carry it out is in Canadian schools—the most democratic institution in the land. Our educational systems are supposed to be models, but under them every child does not nowers an esnal chance. The handscanned, the neglectedwho need advention most because they need all the help they can get if they are to be able to earn their living, and not be a hurden to themselves and others—are not cetting any good of the education that the State provides for every shild. That family pays school taxes, and heavy taxes at that, but the very lame little girl, the very deaf boy, the child that cannot see exough to read, the child whose hrain will never develop, they, who, need most, get nothing. They are not at school at all. What is the remedy A proper system of medical inspection at schools in preper hands and well administered. In this article such a system it antilined.

THE results of medical inspection of echools vary Results must vary where so many people are concerned, because each must act well his part to achieve

the encourse of the whole Anybody can spoil medical inspection of schools. The school trustee may declare it "a fad." and refuse to have it at all. The teacher is our chief belaer, but sometimes even the teacher delays to come to our aid not knowing how much we can and will do for her and for her pupils. Sometimes the parent, with whom, above all, we wish to co-operate, has had an unfortunate experience, and solaces himself for it hy abusing all doctors. These are difficulties: but, as Sir James Whitney says: "Difficulties exist only to be overcome." and the troutee, the teacher and the nar-

ent, will all make common cause with

us some day if we can show good results. What results can we show? Here is a class of boys. Even if you

do think they have the blackest hands in Canada it would be a mistake to say so. It would be a mistake to demand to examine hands on this, the first visit, They have just some in from the schoolyard, and the boy who keeps his hands mmaculate on the playground is likely to die vomes

Were you ever twelve years old? HE was, who met the doctors in the temple. and the doctors loved the Divine Child and detained Him long. Here are some twelve-year-old boys. Speak them fair. Tell them comething interesting about the school in the city or the countrysomething that has a gleam of fun in it. Give them notice of what you want on your next visit. Tell them a story.



The school Dector is a friend of these. Bianabed children are inught in the St. Botolph St. School, Roston.

Children have an inestiable aspetite for good stories. Drop a tactful hint shoot hands, and at the first word you will see each little man sliding his hands into his pockets, or under his desk, or somewhere out of sight. On your next visit you will see the cleanest hands in Canada, all at the price of giving them fair warning and a few kind words. That is the way you would want to be treated if you were a boy. Indeed, it is the way you want to be treated now that you are no longer a on seriously. So it should be boy or girl. The character of the person who is

medical inspector of schools will powerfully affect the results for good or ill. The hireling is a hireling, and the hireling snirit would spoil the best system. You cannot provide regulations that will enable you to gather grapes of thorns or fles of thistles. "Do you exnect us to chase round after these children?" asked a newly appointed medical iremeter of schools. The medical inspector of schools ought to be properly neid. But the man or woman who has no special liking for children, who does not know how lovable children are, who is noor in the spirit of public service and works on a cash horis had better not usurp the place of the school medical officer

It is wonderful what results come from the mere fact that there is a school loctor coming. It was found in Edinberroh that the encouncement of medical inspection on such a day was sufficient to cause a marked improvement in the general appearance of the children. Clothes were changed and baths took place, and altogether the event was tak-

MODURN RUTICASTIONAL MUNICIPAL It will not be amiss for the school

medical officer to familiarize himself with modern educational methods. The doctor does not always know about the Phonic Method. "The Schoolmaster," London, tells a story of a small boy taken by his mother to be examined by the school medical officer, who proceeded to test the boy's sight, placing upon the wall the usual alphabetical display. "Now. Tommy." he said, pointing to F. "tell me what this letter is." The hoy jerked his head forward, and made a sound resembling the first nent of a lo-

comotive. The medical officer looked



very hard, but nointed to S. saving. "Now this one." The boy at once emitted a sound like the hiss of a prodictions serpent. This was too much for the doctor, who gave a look of significant inquiry at the mother. "No. sir." she cried, bursting into tears, "be's not mad, That's the way they teach 'em to read nowadays."

One result of medical inspection of schools has been to show how faulty our methods of school registration are. Our national schools should have a complete list of the names of all children of school are, in the province. This is not the case now. When deing school medical inspection the writer never stood at a school door and looked as far as the corner of the street without seeing children of school are, neglected or not. but certainly not at school. Their names are frequently not on the school perister at all. The same thing was discovered by the supervisors of the Toronto Playermend Association. When children came to the playeround during school hours their name and addresses were always taken, and frequently these

names, on being looked up, could not be found on the school recriter at all. This is narticularly the case with physically or mentally defective child-

got to school, and so the disubled, the handicapped, the neelected-who need collecation most because they need all he help they can get if they are to be able to earn their living, and not be a burden to themselves and others-are not getting any good of the education that the State provides for every child. That family pays school taxes, and beavy taxes at that but the very lame little girl...the very, very deaf boythe child that cannot see enough to rend the child whose brain will never develop, they, who need most, get nothing. They are not at school at all.

zen. Serious cases of this kind do not

One of the results of medical inspection of schools has been to show that our carried out, that we need to have an accurate registration of all our children. and that it is often the most prody cares who are not at school. What are we going to do about it? Register the children, and, the school doctor says, give every child the eduration that will fit him or her to care part, or the whole, of his or her living.

As a rule, in Canadian cities there are three meals a day for everybody, men-

women and children. But with the coming of the slum we are cetting the slum people and the slum ways. One of these is the disregard of the decencies of life. How can the decepcies of life be regarded in a one-room dwelling? The recent report of a preliminary survey of some parts of Toronto, published by the medical health officer, Dr. C. J. Hastings, shows that 198 families in Toronto live in one-roomed dwellings, and 411 families live in two-roomed dwellings, and one of the "soul-destroying conditions" of a one-roomed "home," if home it can be called, is that there is no chance to do snything properly, no place to est. to sleep, to wash, with any comfort or privacy. Even when there are two tooms, there is more often than not no table set. Meals are "rocked-up?" if there are any meals. Nutrition is bad. In a school in a Canadian city one day the teacher saw that a little girl in

the class had a fish, and baying only

too good reason to fear that it was stol-"Oh, Mary," she said, sadly, "what did you take that fish for?" "For dinner." replied the poor child.

The same teacher had noticed that four other children, from one family, never seemed to be able to sustain interest or attention in anything for more than a few moments. No matter bow well she explained the arithmetic lesson and got them started at it, when she looked again at these four children. nothing was doing. She could not think why until one day at noon the eldest little girl was found dividing one niece of bread into four parts. What was the matter? The children were so hungry they could not study. So underfed that they could not learn. There are some children like that, sometimes even in Canada. Medical inspection ought to find them. If Canadian children are hungry, something is wrong somewhere. The medical inspector and



Toronto Playground Association

the school nurse are the very ones to begin to find out why and we are all giving. Has the father no trade, or is he out of work, or is he drinking, or is he lazy, or what is the matter? Whatever it is we want to one that haine Canadians, the children of that father have a trade and get work and don't drink, and are tought industry. For on them depends the future of Canada. And medical inspection is not wanted unless it can help to provide for the fu-



This girl gaised over a pound per week

ture of Canada. There should be three meals a day for Canadian children. Perhaps one of the most important

results of medical inspection of schools is its general educational influence on the community. There are even vet people living in Canada who think that children's diseases are diseases that all children should have and "bave them over!" Not at all Take core of John and Mary, especially till they are twelve years old, and they need never and should never have measles or whoening cough, or scarlet fever or any other disease. It is a far ereater crime for your next door neighbors to steal John's health, or Mary's health by letting there get scarlet fever from their John or Mary than it would be for that next door neighbor to easie into your kitchen and steel ten dollars. Children's diseases are discoues that children should never here.

Even yet there are necess living in Canada who think that consumntion is hereditary. Our medical inspectors of schools should see to it that everybody in the rising generation knows better than that, and knows how we may protest correlate and others from tuber.

Even yet there are people living in Cenada who think the child will "grow out of" a discharging ear-whatever that means—and the medical inspector of the school can do no better missionare work than to take a few minutes to tell the mothers about what a discharge from the ear means, how it may affect the brain and cause death, how it may permanently destroy the hearing, and how that ear may be properly cared for and cured. That may be made plain to the mother. She will see that what you say is reasonable and right, and she will do what you advise. It is worse than useless to report so many dozen children with discharging ears. That is not medical inspection at all. That leaves us inst where we were. Anybody can see that an ear is or is not discharging.

What we want the medical inspector to do either nersonally or through the school name is to normade the naments to take the child to the family physician for treatment, if they can afford it. and if they cannot to find some other may in which the child's life and effieigner may be saved for the benefit of himself his family and the nation

So with the general question of cleanliness. Are Canadians conspicuous for cleanliness? That depends on you and me and those whom we can influence. The school doctor and the school nurse can do more than any of us. Among new Canadians who come from almost every country under heaven the costel of cleanliness must be preached, and the school is the best place to preach it and are it carried out. Not a few cases of pediculosis and even of vermin on the discovered already in Canadian cities been introduced. That should stimulate us all to see that such conditions are swept away. School baths and publie boths are good. Decent housing conditions are better. Thorough social work, with effective organization to prevent misery by securing a fit and industrims citizenship is the most patriotic work for our mayors, aldermen, societies teachers statesmen and citizens generally. And we should do something to clean un some corner of Canads before next Dominion Day, when we sing "O Canada," with tears in our

No condition in school life or in any part of life is more important than sight. And it is incredible how many good and well-to-do parents have never thought of knowing whether John or Mary see well. They are so surprised when the school doorer finds out that they do not see well! Children do not know that the reason they cannot answer the teacher is that they cannot see the letters she is pointing to as easily as the other boys and sirls do. It never strikes John that the resean Torn always shouts out the letter before he does is that Tom can see it and he cannot. John thinks Tom is smart and he is not. The teacher says so. The only way to be sure is to test thoroughly and skilfully and taetfully the sight of every child This must either be done, or at least thoroughly supervised by the doctor The principal is there to organize and manage the school. The teacher is them to teach. The doctor is there to see that sight, hearing and health are as

eves

good as can be. We know of some cases where the smartest pupils learned the letters on the test card by beart and obliginally whispered them to the rest. We know of other cases where the princircl assured the school doctor that there was not one case amone several hundreds of pupils where the sight needed attention! Such a condition of effeirs means at the best a weste of preeigns money and more often a life-long loss of efficiency and education leading



Occupy School. Note downer durer noth such when This boy suined a pound a week.

to unemployment and uselessness of the children so neglected and sinned against East the shild that cannot me connect loans, and the modern world has Almost as important is the question

of adenoids and the ill effects which they cause. In many cases, adenoids, which cause mouth breathing and that often means mal-nutrition, mal-develcoment, stunted growth, dull and stunid mind may practically ruin the child's career, both at school and in ofter life. Give us the good school doe. tor to save the child from such a calamity so the permanent loss of health and growth both mental and hodily caused

The question of children's teeth is

onite as serious as any of those except perhaps that of the eyesight. It would need an article to itself, but this much may be said here, that even the little work that has been done in Helifax and Montreal, Hamilton, Toronto. Winnipeg, Vancouver and Victoria on medical inspection of schools has shown us that we have already reached a condition of offnire where all the dentists in Capada connot overtake the immense emount of work that it would require to fill all the defective teeth in our school children! Our only hope is to prevent decay. Dirty teeth decay, Clean seeth do not decay. The use of the tooth brosh will do more to prevent national physical degeneracy than the use of any other wespon whatever. The tooth brosh is mightier than the sword. he school doctor knows the answer.

In conclusion we can only make a list of a few more urrent matters of health which nothing but the medical inspection of our schools offers much prospect of setting right. Many children have headsches. School-room sir is often had. Why?

Some children are nale and anaemic. The school-room is not well lighted. The print in the text books is not good. Why?

The school sanitary conveniences are doubtful. Why? Same children are below the average m height and weight. Why?

The desks are not made to fit the children. Why? Some children have "growing pains."

The school room is not very clean. Why?

Some children have a slight limp or

have one shoulder higher than the other. Why? Some schools have small playerounds. We need open air schools. Why? Amone other results already coming

of special schools and special classes for mentally or physically defective children. Thus the school doctor helps in the electification of the pupils. "She is a very stunid oirl," said a principal one day. "I don't think I ever saw a stunider girl. I kent her in myself one night to learn some spelling she had missed and I thought she never would learn it. I was tired out with her." "I am sure you were," said the school doctor. "The girl is defective mentally, and cannot learn like other children. It is not stanidity, but inability." There is no belo for that cirl but recognizing the true condition, teaching her what she can learn to do well, some industrial work, and giving her the permanent care, which is the only successful and recommical way to provide for the

from medical inspection of schools

should be mentioned the establishment

feeble-minded. The school doctor can tell us that in an ordinary class she is a honeless misfit. It is not her fault. In short, there is no great problem of public health and national welfare which the medical inspection of schools. in competent hands, and well-administered, cannot help to solve. Its successful administration depends

upon three things: 1. Selection of the very best persons as school medical officers

9. The effective encodination of madical inspection of schools with other branches of the educational system and

the public health service. 3. The discovery of defects among our school population, and the remov-

ing or curing of these.

In the Admiral's Cabin

By Robert J. Pearsall

WE were suthered in the relief shack at Oloneano, waiting for our turn to go on suard. Some of us were standing. some sitting, some somwled out on our convex field-cots. Outside the driving. fever-smelling rain of the Philippines was falling. The Old Timer was talk. ing widle we recruite listened with mouths agane.

"So, instead of coming straight home from Peking, as we expected, we were her, shifted-a hundred of us-onto the Dainhou at Tales And we went from Taku to Yokohema, and then doubled beck to Kohe, and through the Inland Sen to Nacasaki, and then from Nacaseki we started across to Shanghai. And it was then that it hannened.

"A few hours out of Namuaki we met the Limie flost going at full speed ('Limie' means English, von rookie') We wiews soul back and forth a hit or we passed, and directly afterward I saw that we changed our course. I didn't sayvy the reason for it, and neither did anybody else forward, but late the next afternoon we were craising slow along the cost of what I took for Quelnuzt

Island, well off the coast of Korea. "About four hells we made out a ship lying in an autil neguliar attitude dead sheed. And then a little later we saw, first, that she was tilted up forward with her oftennert sunk down like she that she was on the works payt that she was a war-ship and finally that she was a Britisher. Which satisfied me, for we always talking about their crack seamanship. (An English ship is smart. though, you can't deny.)

"Well, after we'd have to as close alongside of her as we dared to get, and

dropped anchor, our skipper issued a bulletie that wised us up a hit. She was the New Bedford, the British flagship. and she'd run on the reef early that morning while they were having speed tests in a slight fog. (A funny time to have speed tests, I thought.) They'd ont everybody off safe and had removed all valuables and taken the breechblocks out of the owns and shandoned

"Our cutter was lowered, and our officers went on board in a body to investigate the wreck; and when they came back they, and the sermen who had rowed them over, too, were louded down with souvenirs and brie-a-brac. and fine plate with 'H.B.M.' stamped on it, and rich lace, and so on and so forth, It was all right enough: they might as

well have it as the Korrens, who wonldn't know what to do with it any way: but it save no fellows as didn't. have a chance at it a hungry feeling. "Now, we naturally expected to upanchor immediate; but just as we were standing by the wireless began to sput-

ter, and shortly a new bulletin was posted. It said that Shanghai had reported that a typhoon had passed that port some miles out at sea, headed north, right along our course, and that consecountly we would lay where we were notil morning. A typhoon is a tricky onimal and the Roinbon is an old eraft and we owren't taking any changes.

"No sooner had that bulletin been nested then ideas began to chase themsolves around in my head. So I called Highy Jones who'd been my bunky of Paleing and divulged them to him " 'Boridae' I said ofter other oron.

ments, 'they tell me that when they boarded her this afternoon the admiring high tide. And they tell me for- ing things, took hold of it and tried to ther that at time of the wreek the ad- bill it. It was fastened to the floor. miral wasn't on board, being on au- They probably hadn't had time to get other ship. Now, it'll be low tide to- it loose. night. And things might have been

shout six bells that night, when we met forward of the breakwater, on the forecoatle. He was drossed in regulation under-drowers and so was I, and we slid down the anchor-chain into the water without making hardly a ripple. and struck off for the New Redford. "It was a half-mile sprint, about, and we were both pretty well tired when we

got there: Then we cruised around quite a while before we managed to make a beenting but we finally found a dangling two and scrambled up the side. "We made the upper deck and start-

ed oft, looking for the officers' quarters. We found the aft canoway, went below struck one of the matches Hicky had carried in a watertight case, and looked around.

"Believe me, it does make a man feel funny to welk through the fusey staterooms and feel the soft rugs under his feet, and see the white beds the officers sleep in, while the men huddle together forward. And real both-tubs on board a man-of-war! But I hadn't ought to be seving this, and, besides, it's nothing to do with the story.

"Well, we tried the electric lights. but of course they wouldn't go; and we finally found a candle. Then we rummaged around for quite a while We found plenty we'd like to have but nothing we could carry with us, until tre struck what we supposed was the ailmiraFe cobin-

"It was bigger than the rest, that was orders to that effect. Any way, nothing was left, except, over in one corner, an

al's cabin was flooded, 'count of it be- when Hirky, who had a habit of heft-

"The drawers were cleaned out, though, and we were just turning away "He acreed, and we seconded until from it when a crack between the upper and lower drawer caught my eye. looked at it, and then velled to Hicky to come back. For there was the outline of a little drawer that was evidently intended to be kept secret, for there wasn't any handle, nor anything to mark it. But the sonking in salt water if had not had sprung the wood and showed it up.

"I tried to pry it open with a table knife which we borrowed from the unwireness but there was nothing doing. So we had to go on top side and get a fire-axe. That turned the trick, after a deal of hammering.

"Hicky nulled it onen. Inside the drawer was a little black box; and inside the little block box was --" 'Great Jehosaphat!' cries Hicky.

"Whomsel I rells making a grab for the place my but could to be, to throw it into the air. Jumpin' Calithumpians! Rich! A home in Newport and a house in New York, steam yachts and automobiles and peroplanes, manservants and maid-servants, sea voyages and mountain elimbing, but hirds and

"For there, lying before us, was the finest collection of jewels you ever saw. Diagnonds and robies and conerolds and canolle light set them sparkling so it

"We omicted down at last and starstalne. And then, just us we'd settled so we usuld carry them-

"Biffo! Something landed on my back like a monkey. I whirled, just in "We went over to it, wondering why time to catch another monkey-like it hadn't been taken. We found out excuture in the solar plexus and put him down and out. Bu he cahin was half full of them, and I. key was being rushed, too, and all or sudden the candle was knocked to the or and put out, and then it was a fight ... the dark. with the Lord knows how many native

"Now. the Korean has the same idea of lighting as any other Chinaman, and that is to grab somewhere and hold on like grim death. When they're fighting with each other they naturally erab each other's pictail and then it's a pulling match for fair; but with a white man they just attach themselves promiscnously, which makes them easy to handle singly, but troublesome when they come in bunches which they mostly do.

"I guess there was about ten holding onto various parts of my anatomy when they finally got me down, and when I commenced setting a bunch of healthy kicks from the flat of a bare foot I knew that Hicky was down, too.

"'Let up, Hicky,' I casped. 'It's me you're kicking. "They got you, too, Tom?" he whosed. Well, I guess it's all off,

then. "We quit fighting and lay quiet while the Koreans squatted over us and on us, in various attitudes, and inhhered to each other, trying to settle, I suppose,

what to do with us

"At last they began to disengage themselves, gradual, from my frame, and just as I was meditating making another fight for it. I felt a rope trussed around my feet. Then my hands were twisted behind my bock, and my wrists were tied. I was turned on my face. and ropes were passed around my waist and short and nativel to the deal. Two hammers were going, so Hicky was probably being treated in the same way. "After they'd tried the ropes again,

to see that they were safe, they left. I tried to twist around on my side, but I could only move my head and shoulders. I strained at the ropes around my hands and feet, but they were hard and

fast. Then-well, then I laughed, for Hicky had begun to speak. "Hicky was what you might call a linguist. In cassing, I mean. He had been in pretty nearly every country in the world, and had learned the cuss words of all of 'em. And if there was one he didn't use that night I'd never hoard it myself, and that's saving a lot.

"What's the matter. Hicky?" I asked, after I'd listened awhile, "That started him off again, and I had another laugh. And then I thought something that stopped my laughing as if I'd been choked.

"'Hicky,' I saked, 'when does the tide turn? "For just a second or two, until my words had time to sink in. Hicky's flow of language kept up. Then it chopped off short. For about half a minute there was no sound but the cureling of

water somewhere. "'Lord, Tom, I never thought of "'Neither did I, Hicky, until just

" It has just about started to come up now, hem't it? "'Yes. I think so."

"'And this cabin was flooded when they came on board to-day." "'So they said. All of the lower compartments oft. "Then it'll be flooded again in a

few hours?" "OR SECONDER P" " 'And we'll be-drowned." "That's all I can see."

"Hicky didn't say anything more. and neither did I. All the noise there was was that curcline of water. It was all imprination, of course, but I swear it sounded like the rooring of Niagara. "More to drown the thoughts of it than anything else. I began to twist around in my ropes amin. But they couldn't have been any tighter or more secure if they'd been tied by an able seaman. I could hear Hicky doing the same thing, and he grunted as he twist-

ed. But he'd left off swearing.

"After about ten minutes of this there came the sound I'd been dreading. It was a trickle of water close at band, Hicky heard it, too, for he stopped as if he'd heen shot,

"'It's coming, Tom.' he said. "'Yes.' I answered. And I was thankful for one thing; that I didn't have a coward or hysteric fool to die with. Hicky would die game; he might choke and sputter a little at the end, but that would be all.

"The trickling was cetting loader: from the sound of it. It was coming through the open bulkhead that led in- dry to the cabin. I was so busy listening to it that I didn't notice anything cise, says Hicky, 'what was that?" until all of a sudden I came abve to the fact that my left foot was lying in a rool of water. And then I knew that

"The vessel was tilted sideways-like, as well as fore and aft, so that was the way it came, creeping from our feet up. And by the time it reached midway around my waist I becam to wish we'd been turned the other way round. For the slow move of it, every minute just a little higher-I tell you it was enough to get the nerve of the bravest man living.

it wasn't coing to last long.

"I wanted to do something, to say something, to hear something, to feel something-anything besides to lay there and feel that slow rise of water. But I set my teeth grimly; as long as Hicky could stand it, I would, without a whimper.

"It was just under the front of my shoulders now. In about ten minutes as well as I could calculate time, it would be up to my face. I had a fittle freedom of motion there; I could throw my head back and so stave it off for a few minutes: but I made up my mind that if it were possible. I'd hold my free to the deck. The sooner 'twas

over the better. "But it was hard waiting. I wanted to well, to curse, to new. I misdoubted but what I would in another minute. My nerve was going fast.

"All of a sudden there was a jar, no. a sort of a lurch, of the deck under us, And while we were wondering what it was, the lower pert of it rose and the deck suddenly came level. "I thought that was the end, for of

course the water spread itself equally all over the deck. I forgot my resolve to die quiet and heaved my head as high out of water as I could, and choked and strangled. "It was lucky I did, for in another

minute I felt the water going down, and in another we were lying high and "In the name of all the little fishes."

"And I asked the same question simultaneous. "Naturally, neither of us had a re-

ply ready. But my thoughts kept revolving themselves, and all of a sudden the answer came to me. 'Hicky.' says, 'I bet this deck has "Overboard in action" tagged on it somewhere. " "Overboard in action" | What---

Oh by George, you're right! I've read it somewhere, read that most English hins have their wooden decks laid in loose so they can be heaved overboard in case of battle. Liable to cause fire or spinters or something, you know, And this is one of 'em. And it's float-

" 'But the one shove us isn't wood. It's steel. I noticed it while the candle was lit. And what's guing to happen to us when this one rises so high than the two of 'em come together?' "'Oh, the water may not rise that

high, says Hicky, 'And any way, that's a long time off. Let's take it as easy as possible until we get there. "And, if you'll believe me, that's what we did. We lay there and chewed the rag with each other as though we'd been lying in our bunks. Only, I couldn't belp wondering all the time

how much clear space there was above us, and working my hands as far up as I could helf expecting to feel the upper deck.

"We lay that way for hours—it seemed for days. But I knew that when daylight came we'd know it, if we lived that long for there must be a ventilator over us. And, naturally, it would open on the top gids.

"It came at last, slowly, while we keep trying to look up. At last it got light enough, and I got my head around and trying to look up. At last it got light enough, and I got my head around far enough, so I could see the upper deck. It was about three feet above us. And by watching the side I could see that

"I could see one other thing: that where the hureau had been there was nothing but a hole in the deck. It must have been built in the side; it was not intended to be "overheard in setion." And no wonder, with all those levels in it.

"And then, as it grow lighter, I saw our chance.
"The deck shove us was held up by hig steel girders. They tapered down almost to an edge, like the ones on our own shire. And one ran directly above

Hicky, and lengthwise of him.

"I kept still. There was no use roming his hopes until I knew there was a chance. But I couldn't keep my eyes off that girder. And Hicky saw me with my head always twisted in the same way, and then he saw it, too. We both witched it like cut, neither of use

"It came closer, closer. It was two fact shove Hicky's bound hands, now a fost, now six inches. And I twisted my head and watched it.

saving a word

"Then it too bed the ropes that bound his hands. And I opened my mouth for the first time since I'd soon it. 'Sow, 'Hicky, saw!' I yelled. 'And Hicky sawel' I he strained himself upward and begun rubbing the ropes against the girler. At first it was hard to press against it enough to do now most bast as the wester valued of

course, it brought him closer to it.
"I turned my eyes away; I swear I
was afraid to look. But I could hear
Hicky breathing hard and grouning

now and then. And then, as we rose higher, I raised my own hands until they touched the deck above, and tried to hold down. Of osurse, it did some good, but I could fool myself rising in

avisto of all I could do.
"Then the rape of the rope against
the girder stodently stopped, and
Ricky's hreshing seemed to stop too.
I grouned; had he given up? And
then I beard as man, and I kneer it was
the rope, and that his hands were frose.
"When a man't life depends on it,
believe me, he can work fast, I midof half a spinute Hicky he heaven?

the other ropes that bound him and wrighled free.

"Many a man at that would have made a break for the ventilator. It was no sure thing, or even probable, that if he stopped to get me loose he'd be able to get out himself, for the water was rising first. But he cawled over to me, not even stopping to until the

f "(1 took him some time to set me of free. When he did, the deck that we lay on wa slimest up to the lower edge of the girders. It was all we could do to force it down again, so we esseld crars! through between the two, and when we did the water came in and like to have stranged us. But we get to the ventilator at leat.

ropes around his less.

"We crawled up through it, and fell over the side of it, and lay on the top side, in God's good air and smilght, and laughed. Relled over and over and laughed and laughed. Crary? Well, I guess so.

"We were still loughing when the longboat earns from the Reindoos and took us off. They'd missed as at quarters, and sarmised where we'd goes. "The jewels? The Koreaus got 'em. of course. That was what made 'em jump us in the first place, I suppose. Any way. Hicky and I never went back to see. We couldn't. The old man

Jones is in the last plant, I suppose Any way. Hisky and I never went hack to see. We couldn't. The old man gave us five days for jumping ship, and when we got out of the brig we were in Shanghai."

Dr. Marden's Inspirational Talks

L-SELF FAITH, THE MIRACLE WORKER II.—THE SCIENTIFIC TOY THAT MADE ITS MAKER A MULTIMILLIONAIRE

By Dr. Orison Swett Marden

There two articles are typical of Dr. Marden's inspirational swritings. They have but a metal's controlled to a series of articles of the character metal and the color an

L-Self Faith, the Miracle Worker

NO MAN gets very far in the world or expresses great power until self-faith is born in him; until he catches a glimpse of his higher, nobles self; until he realises that his ambition, his aspiration, are perods of his ability to reach the ideal which hunnts him. Perhaps there is no other one thing.

which keeps so many people hack as their low estimate of themselven. They are more handicapped by their limiting houghly by their foolish convictions of inefficiency, than by almost anything else, for there is no poser in the vaniverse that can kelp a wass do a thing whehe he thinks he consuded oit. Self-faith must lead the vay. You cannot ge beyond the limits you set for your-self.

"Aroseding to your faith he it unio

"According to your faith he it unto you." Our faith is a very good measure of what we get out of life. The man of weak faith gets little; the man of mighty faith gets much. Sulfaith has been the retractorary.

er of the ages. It has enabled the inventor and the discoverce to go on and on amidst treebles and trials which it is otherwise would have utterly disbasatsored them. It has held immuneration over

or heroes to their tesks until the glorious is deeds were accomplished. So Count that man an enemy who shok-

count that man an enemy who sasks es your faith in yourself, in your audity to do the thing you have set your leart upon doing, for when your confidence is gone, your power is gone. Your schievement will never rise higher

The miracles of civilimites have been performed by men and women of great self-confidence, who had unwaveringes self-confidence, who had unwaveringes faith in their power to accomplish the tasks they understood. The race would have been centuries behind what it is to-lay had it not been for their get, their determination, their persistence in finding and making real the thing they believed in our which the world often

demounced as chimerical or inspossible. An unwavering belief in onself destroys the grastest extenses of achievent—fear, doubt, and varialitation. It removes the thousand and one obtains which inspelled the progress of the week which inspelled the progress of the week which inspelled the progress of the week of the conversion of the second of the conversion of the second of the conversion that the Creator has given as power to realise our life call, as it is written in our blood and stamped on our brain cells—is the secret of all

"Trust thyself: every heart vibrates to that iron string." I know people who have been hunting for months for a situation, because they on into an office with a confession

of weakness in their very manner: they show their lack of self-confidence. Their prophecy of feilure is in their face in their bearing. They surrender before the battle begins. They are living wit-

nessee cosing themselves If you expect to get a position, you must go into an office with the air of a conqueror; you must fling out confidence from yourself before you can convince an employer that you are the man he is looking for. You must show by your very presence that you are a man of force, a man who can do things with visor, cheerfulness and enthusiasm. Self-confidence marshals all one's faculties and twists their united strength into one mighty achievement

cable. It carries conviction. It makes other people believe in us. "If we choose to be no more than clods of clay," says Marie Corelli, "then wa shall be used as clode of clay for braver feet to trend on."

The persistent thought that you are not as mood as others that you are a week, ineffective being, will lower your whole standard of life and nerelyse

your ability. You can never reach nobility by holding the thought of inferioritythe thought that you are not as mod as other people; that you are not as able: that you cannot do this; that you cannot do that "Can't" philosophy never does anything but tear down; it never builds up. If you want to amount to anything in the world, you must hold up your head. Say to yourself continually: "I am no beggar. I am no peuper. I sm not a failure. I sm a prince. I am a king. Success is my birthright, and nebody shall deprive me of it." If you doubt your shillity to do what

you set cot to do: if you think that

others are better fitted to do it than

your if you fear to let yourself out and

take chances; if you lack boldness; if

you have a timid, shrinking nature; if the negative preponderate in your voeshalary: if you think that you lack nesitiveness, initiative, appressivaness, shility: you can never win anything very greet until you change your whole mental attitude and learn to have great faith in yourself. Fear, doubt, and timidity must be turned out of your mind. Every child should be tenght to axnest success, and to believe that he was born to achieva, as the acorn is destined to become an oak

A physical trainer in one of our girl's colleges says that his first step is to establish the cirls in self-confidence; to lead them to think only of the ands to be attained and not of the means. Ha shows them that the ownter nower lies hebind the muscles, in the mind, and points to the fact so frequently demonstrated, that a person in a suprame crisio, as in a fire or other estastronhe, can evert strength out of all proportion to his muscle. He thus helps them to get

aid of four and timidity the prest handicars to achievement. I have interviewed many timid people as to why they let opportunities pass by them that were easurly seized by others with much less shillity, and the course was invariably a confession like the following: "I have not courses." said one: "I lack confidence in myself." said snother; "I shrink from trying for foor I shall make a mistake and have the mortification of being turned down," said a third; "It would look so shooler for me to have the nerve to put wwelf forward" sold a fourth: "Oh. I do not think it would be right to seek a place so far above me," said another. "I think I cusht to wait until the place seeks me, or I am better prepared." So they run through the whole gammt of self-distrust. This shrinking, this timidity or self-effacement, often proves a

worse enemy to success than actual in-

competence. Take the lantern in the

hand, and you will always have light

enough for your next step, no matter

how dark, for the light will move along

with you. Do not try to see a long way ahead. "One sten enough for me. The reason why so many men fail is because they do not commit themselves with a determination to win at any cost They do not have that superb confidence in themselves which never looks back: of us are so pinched and narrow, is bewhich burns all bridges behind it. cause we do not have a large faith in There is just uncertainty enough as to ourselves and in our power to accomwhether they will succeed to take the plish. We are crippled by the old oredge off their effort, and it is just this little difference between doing pretty

Self-reliance which carries great, vigorous self-faith has ever been the best substitute for friends, pedigree, influence, and money. It is the best capital in the world; it has mastered more obstacles, overcome more difficulties, and carried through more enterprises than any other human quality. It does not matter what other people

grand achievement.

think of you, of your plans, or of your sims. No matter if they call you a visionary, a crank, or a dreamer; you must believe in vourself. You forsake yourself when you lose your confidence. Never allow anybody or any misfortune to shake your belief in yourself. You may lose your property your health your reputation, other people's confi dence, even; but there is always hope for you so long as you keep a firm faith in yourself. If you never lose that, but keen muching on the world will sooner or later, make way for you. A firm self-faith helps a man to pro

icet himself with a force that is almost irredutible A belonger a doubter has no projectile power. If he starts at all, be moves with uncertainty. There is no vigor in his initiative, no positiveness in his energy.

a man who "knows" he can do it, who is "bound" to power, an irresistible Self-confidence is not exotism. It is

man who thinks that "perhaps" he can do, or who "will try" to do a thing, and force, equal to any emergency.

sciousness of possessing the ability requisite for what one undertakes. Civilization to-day rests upon self-confi-One reason why the careers of most

thodox idea of man's inferiority. There is no inferiority about the man that God well and flinging all oneself, all his made. The only inferiority in us is power, into his career, that makes the what we put into ourselves. What God difference between mediocrity and a made is perfect. The trouble is that most of us are but a burlesome of the msn God natterned and intended A Harvard graduate who has been out of college a number of years, writes that because of his lack of self-confidence behas never earned more than twelve dollars a week. A graduate of Princeton tells us that, except for a brief period. he has never been able to earn more than a dollar a day. These men do not dare to assume responsibility. Their timidity and want of faith in themselves destroy their efficiency. The great trouble with many of us is that we do not balleys anongh in ourselves. We do not realize our power. Man was made to hold up his best and carry himself like a conqueror, not like a slave-as a success, not as a failure-to assert his God-given birthright. Self-depreciation

The men who have done the great things in the world have been profound believers in themselves There is no lew by which you can

achieve success in anything without expecting it, demanding it, assuming it. There must be a strong, firm self-faith first, or the thing will never come. There is no room for chance in God's world of system and supreme order. There is a great difference between a Everything must have not only a cause. but a sufficient cause-a cause as large as the result. A stream cannot rise higher than its source. A great success must have a great source in expectation. in self-confidence, and in persistent en-

deavor to attain it. No matter how

or how splendid the education, the can and he can't who thinks he can't achievement will never rise higher than This is an inexorable, indisputable law, II .- The "Scientific Toy" that Made its Maker a Multimillionaire

"MY GOD! it does speak!" exclaimed Six William Thomson (Lord Kelvin) in such bewildered amazement that be let the primitive little wooden telephone instrument drop from his hand. Elisha May, the eminent electricism, secomnanied Sir William and was similarly astounded. It was at the Centennial Exposition at Philadelphia, June, 1876. and Grav's telegraphic exhibit, as George C. Maynurd tells the story, was construently exhibited in one of the main buildings while the new telephone of Alexander Graham Bell a very simple instrument "no larger than a lady's toilet bottle," used alternstely as a transmitter and a receiver was very modestly set up in an out-ofthe-way gallery, with no one to explain its operation. Bell, himself, was lecturing in Connecticut, but on the arrival of the creat English countiet Thomas he was hastily summoned to Philadelphin to explain his new invention. Sir William, who was familiar with the operation of various automata, such so emakes alsolve and the automaton chess-player of Maelael, which would say "echec" in a very metallic tone, instend of a living player's "check," bad expected to hear nothing more than the merest travesty of a real voice, or at heat something of the ventriloquial. Punchand-Judy order, and was for the mornent overcome with aetonishment at the telephone's perfect duplication of buman atterance in every detail of quality and volume, tone and timbre, modulation, ritch, inflection, accent and emphysis, "Singing through the telephone," said a Washington paper, "is heard with a sweetness and softness that

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is marvelous and fascinating." But even Sir William failed to appreciate the west commercial possibilities of

sors in schools and colleges were equally interested, and used the telephone to illustrate lectures in physics, but none of them seemed to have the least idea that it would ever be adapted to hasiness purposes. Capitalists, also, gave very little encouragement to the establishment of either public or private lines as a safe investment. About Appast 15. 1877, the president of the Western Union Telegraph Company and Theodore W Voil went together to examine a telephone and witness its operation "by an expert." After the experiments bad been conducted with perfect success. the president, "in the most emphatic manner," declared: "It can never be of any practical use in husiness affairs." Mr. Vail did not venture to controvert this statement, but he impresend the first opportunity to make an engagement with Gardiner G. Hubbard, father-inlaw of Mr. Bell, to aid in establishing and conducting the new business. George W. Baich, another Western Un-

though somewhat briefly and erudely.

the pretty little mechanical mimic.

Other scientists of eminence and profes-

ion superintendent, also had enough faith in the new idea to think it worth his while to accent a perpetual telephone license for the entire state of Michigan without paying a dollar for it. When be went home, however, with the license in his pocket, his fellow employees of the great telegraph company laughed at him for "ming into the toy business." In all the articles the writer has ever seen upon the genesis of the telephone, it seems to be tacitly assumed that Mr. Bell stumbled upon the besic idea by a sort of lucky accident. Nothing could he feether from the truth. Indeed the invention has its genealogy or nedigree, which I will attempt to give, al-

His father Alexander Melville Rell, devoted many years of his life to the cure of stammering or stuttering and the removel of other defects of articulation and pronounciation in England and Scotland In 1849 he published a work in which he said, "It would really be a matter of but little difficulty to reconstruct our alphabet, and furnish it with invariable marks for every appreciable pariety of most and articulate sound." When he came to the attempt, however, he found several lions in the path; which, as is the nature of such beasts, did not show themselves until the huntsman came close to their dens. They were successfully attacked, nevertheless, and in 1864 his new system was perfectly completed. On September 3 of that year the "Reader" published this description of Mr. Bell's methods by Alexander J. Ellis, F.R.S., and author of "The Essentials of Phones.

"The mode of procedure was as follows: Mr. Bell sent his two sons. Edword Charles Bell and Alexander Graham Bell out of the room (It is interesting to know that the elder Edward who read all the words, had had only five weeks' instruction in the use of the new alphabet) and I dictated slowly and distinctly the sounds which I wished to be written. These consisted of a few words in Latin, pronounced first as nt Eton, then as in Italy, and then secording to some theoretical notions of bow the old Romans might have uttered them. Then came some English provincialisms and affected pronunciation: the words, 'how odd,' being given in several distinct ways. Suddenly, German provincialisms were introduced then discriminations of sounds often confused-ees, is', (Polish); eesh, ich, (German); ich (Dutch); ich, (Swiss); oui. oui. (French); we, (English); wie, (German); vis. (French); some Arabic, some Cockney-English, with an introduced Arab guttural, some misuronounced Spanish, and a variety of

shades of vowels and diphthongs. . . . The result was perfectly satisfactory:

-that is, Mr. Bell wrote down my oneer and nurnosely examerated pronunciations and misnronunciations. and delicate distinctions, in such a manner that his sons, though not having heard them, so uttered them as to surprise me by the extremely correct echo of my own voice. . . . Accent, tone, drawl, brevity, indistinctness, were all reproduced with surprising accuracy. Being on the watch, I could, as it were, trace the alphabet in the lips of the renders. I think, then, that Mr. Bell is instified in the commerciat hold title which he has assumed for his mode of writing-'Visible Speech.' I only hope that, for the advantage of linguists, such an alphabet may be soon made accessible, and that, for the intercourse of nations, it may be adonted generally, at least for extra-Ruronean nations, as for the Chinese dialects and the several extremely diverse East Indian languages, where such an alphabet would rapidly become a great social and po-

July 15, 1865, stated, among other things: "A full spaces for example is a complex operation; it comes among what are called inarticulate sounds; but Mr. Bell writes it down, and, for aught we know could undertake to furnish with a symbol representative of his own particular sneeze, as distinguished from those of all his colleasues. . . . Mr. Bell tries each sound himself, until the proposers admits be has got it: he then writes it down. After a score of such attemnts have been recorded, his sons are called in and reproduce to a nicety all the oneer babelisms which a grave party of philologists have strained their muscles to invent. The originel symbols when read sound after

wound would make a Christian fance

An editorial in the "Athengum" of

himself in the soological gazdens "The utility of such a method is obvione: it is clearly one of those steps of which people admit the utility so long as they can deny the practicability, and then when obliged to admit the practi-

coage by interlinear use of the alpha-

bet of sounds-will be a very pretty in-

Mr. Bell then made this proposition to the Britah Government: "If the orpenses of costing the new types and pubpenses of the control of the control to the control of the control of the he dernyed from public resources, I will, on this simple condition, retinquish gro bono publics all copyrights in the explanatory work, as well as all exclusive property in the system and its applications, in order that the use of the

universal alphabet may be as free as that of common letters to all persons." This request was made in vain. The subject did not lie within the province of any of the existing state departments. and the memorial was, on this ground, politely bowed out from one after another of all the executive offices. On the 17th of May, 1867, Mr. Bell's elder eon, Edward Charles, whose ability in demonstrating the linguistic applications of the system exceted the admiration of all who heard him, died in his nineteenth year. Rebuffed by his country, and hereft of his hrilliant son, he determined that the system should be published, whatever the sacrifics to himself, and about the first of the following September its "Inaugural Edition," of some 150, eight-by-ten inch nages, with complete illustrations and a full alphahet of all the new letters appeared simultaneously in London and New York. On pages 101 and 102, under the heading, "Visible Speech Telegraphy," the author says: "The indefiniteness of ordinary letters is productive of much inconvenience in international telegraphy. Messages cannot be transmitted in their original languages through foreign countries but for the convenienre of operators, must be translated, of course of the serious risk of error, and to the entire destruction of verbatim accuracy. The system of visible speech will render the telegraphing of words through any country countly certain and easy in all languages. The onerator, while he may not understand a syllable of the writing, will transmit the ipsissima verbs, and the very sounds of

the original, as a vivu were utterance to the rootiver, maind that this was written more than eight years prior to the invention of the telephone! Yet evidently but very few steps were necessary for that writer or his son to enter the field

of telephony. Soon after he came to the United States, Alexander Graham Bell, who was also an expert in visible speech. married a deaf-mute, the damphter of Gardiner G. Huhhard, and the missing link of an incentive to study the transmission "Toy" of speech to apparently inaccessible ears led to the long and careful investigations which would almost inevitably end in the invention of some kind of telephone. The young husband was already expert in all the finest mechanism of human speech; be soon, hy actual dissections, hecame equally expert in the mechanism of beering, and soon all the relations and correspondences of the two were mastered. What is the telephone but a mechanical ear, with its drum, its recononce opporates its wires taking the place of nerves, etc.? The first instruments were receivers and transmitters all in one piece. Indeed, the receiver of to-day in a very fair transmitter, as anyonce can test for himself.

Civic Publicity: A New Profession

THE RISE OF A MODERN CALLING IN CITY DEVELOPMENT AND SOME OF THE MEN WHO ARE FOLLOWING IT IN CANADA

By Charles L. Barker

year or two there has been created a new proteonier—that which are being spikitely reprotests. The prefetable way is which large cities have forth. Not alize the the work been confined to cities provinces have forth. Not alize the the work been confined to cities provinces have also harrocked into it. Probletly the greatest healths will occure when charge of departments calculated to develop that natural advocatages and through publishly scores for them. a fair manner of prosperity.

GIVIC PUBLICITY has some to be a recognized factor in the growth and expansion of urhan centree of population from one end of Canada to the other. It is an instant indication of the progressive spirit when any city is able to tell the visitor and the castida world that it has a publicity occumisationer, an industrial agent or a press service hur-

This is an entirely new department that has grown up within the past few years in the administration of number pol affairs. Where formerly, we won't to get along with our flanzoe, public works, fire, water and light countries to the same policy of the property of the pr

to be no small spending department.

In this sphere of municipal government we see the rise of a new profession
—a profession that pays salarize commenurate with the importance of the
work performed. The fond father of
the olden days who considered law or
medicine the only professional cuttle

for his talented son will think twice before making a choice hefore sending his boy into fields already overcrowded when an inviting evenue looms up hefore his eyes and he eees the magic sign: "Givic Puhlicity." Ottawa is paying its publicity com-

missioner \$2,500 a year and provides him with a handsome downtown office. London incheed the industrial expert of Hamilton to leave that city at an advance of \$1,000 a year and will pay him \$2,500 per annum. Regina engaged a publicity officer the other day at a salary of \$3,000, while Winnipeg is noving a similar official \$5,000 a.

Brainy, energetic publicity experts ean find a position any place they desire to hang up their hats. The demand for exceeds the supply. The man who can produce results can almost name bit own nrise.

his own price.

The publicity movement gained its first impetus in the middle west and then developed with remarkable strides to the autumn limits on both sides of







El. M. Muzek, Hamilton, Ontario.

where the Idea first hocks loose.

Port William was being known as a milling centre. That is, it was known and recognised as such every place doe but in Port Arthur, its nearest neighbor. These two rivide clies at the head of the property of the property

This new official happened to be one, H. W. Beker, who had seen service in some of the large cities of the United States, but had how, attracted to civipublicity work as a promising field for early development.

The advantages of Fort William were son emblacemed in a manner that resoulted in a very perceptible increase in the city's population. There was an in-

the continent. It is hard to say just dustrial stimulus that benefited every-

Ottowa, the heautiful capital needing up there among the Laurentian hills tast make the Ottawa Valley a region of constant delight to tourists and those fortunate concapt to have their residence in that district, decided, two or three years ago that it should join in the chart of the ottawa the order or he left in the industrial burch.

About a some of active members of

the Ottawn Board of Traile met one verning, talked things over and came to the conclusion to launch a published compaign that would make the highest accumpaign that would make the decities gape with astonishment and disginal control of the control of the control of the plays a deep say geron of civic early. After a canvax was made of the merchanis and manufactures it was found that every last one of them stood in fature of convincing Canada and the world at large that Ottawn was more than a national cannish and a neareful



L. T. McDonald, Begins, Seek

The publicity movement spread over the city like wilding. It was talked published to the city of the city of the published to the course of his rearries. The upshot of it was that Ottawa cenned an industrial luxeran scorned II. W. Baker from Fort William, as conmodated to the course of his published to consider the city of the city of the months of the city of the city of the months of the city of the city of the months of the city of the city

opened an inclustral larger, secured II.
Whither from him William, as compared in the control of the control of the conspanding \$15,000 a year, one-third of
this sum being raised by board of the
subscriptions, and the other two-thirds
subscriptions, and the other two-thirds
subscriptions, and the other two-thirds
was content for a time to pursue the
Montrola, the metropolis of Canada,
Montrola, the metropolis of Canada,
was content for a time to pursue the
terms of the control of the control of
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half a million population.

But the march of progress was not to
be arrested, and so we have in Mont-



Charles P. Roland, Winnipeg

real the Press Service Bureau, which has been organized "for the purpose of setting forth in a systematic manner by articles and advertisements the possihilities of the city with a view to attracting trade, commerce, capital and tourist traffic to Montreel in particular

and the Dominion in owners The development of the science of civic publicity is working bayee with the ranks of the newspaper men. Calgary is paying a handsome salary, somethine like \$4,000 a year, to Mr. Andrew Miller, formerly managing editor of the Ottawa Free Press, and a journalistic worker in Toronto for several years. Mr. Miller naturally believes in printer's ink but he also employs what he calls "the gumshoe" method, which consists of quietly slipping away to New York or some other city and arguing out in person that Calgary is the only city on the Conadian man worth while hothering with. And rival publicity commis-

sioners have to admit that Mr. Miller's



K. S. Perwick, Oceber, Oacher,

method is a winner, as they have found out to their own disappointment. F. Maclure Sclanders, commissioner of the Board of Trade at Saskatoon, is another newspaper graduate. He has led an adventurous career, baying been twice around the world since leaving Glasgow, his native city. He works along original lines and gets results, because Saskatoon is growing and boom-

ing in true western style. Mr Arthur S. Barnstead, the secretary of industries and immigration for Nova Scotia, is a college graduate who took a law course and subsequently became editor-in-chief of the Acadian Recorder, the oldest newspaper in Nova Scotia. This bureau spends \$20,000 a. year, of which one-quarter sees for

salaries. Take Mr. J. Grant Henderson, who recently transferred his allegiance from the Ambitious City that bossts of its farnous mountain to the Forest City that boosts of the River Tharnes-excenting when it coerflows in the spring



of the year. He is another publicity worker who enjoyed a long experience with the newspener profession. He is a Hamilton man, born and bred there. hut London made him such a generous proposal that he could not resist, and when the change was announced there was criticism over a stingy policy that let such a well qualified man get away

to a rival city. It is only two years ago since Hamilton Council made the first appointment of an industrial commissioner who would devote his entire time to this office, and in the intervening period over twenty large industries have located in that city.

London business men took a spurt recently in the publicity line, and besides engaging the services of Mr Henderson, have raised the sum of \$100,000 to be invested in new industries locating in that city that require the assistance of local capital The Board of Trade in Brantford has raised \$3,000 a year in subscrip-



J. G. Henderson, London, Optimie.



The city of Winniper was one of the pioneers in the publicity movement. A wonderful success has been achieved there, due to perfection of organization and the resourceful methods adonted by Mr. Charles F. Roland, the industrial commissioner, who is paid \$5,000 a year in salary, and has almost unlimited resources at his command for handling the work. The city grant in 1900 was \$1,500. It has been increased nearly a scorefold, as the grant was \$25,000 in 1910, and the same last year, Mr. Roland's excellent services have been recognized by his selection as secretary



Herbert W. Baker, Ottown, Ontario

of the international expection commission that will have charge of the world's fair, to be held in Winnings in 1914. Mr. Elliot S. Rowe, a native of Whitby, has been called the Ambulating Ad. for Vancouver. He is a teacher. preacher, lecturer, investigator and informant, but principally and mostly he is the official publicity purveyor for the

metropolis of British Columbia Cities are not the only municipal corporations that have a manopoly of this now science of booming some perticular community. The county councils are awakening to the importance of the work. Daring the post few months Lambton, Norfolk and Essex counties in Ontaria have been placed on the honor roll, with the principal object of attracting settlers from Michigan, Ohio, Illinois and Indiana and from the Old Country, in addition to promoting the "Stay-in-Outerio" exempaign

By Ed. Cahn

DORIS was a very ordinary girl really. but nearly everyone who knew her considered her most extraordinary, for she had a way of doing the most unexpected things at times when the world. Mrs. Grundy, the Saints, or whoever it is that conducts the conventions, have decreed that only the most ordinary will

She was ordinarily good-looking. which in America, and New York in particular, means quite passable indeed. Her brown hair was of an ordinary shade, done up in the ordinary manner, schieved by the ordinary means, namely, a "rat." Perhaps she was a little out of the ordinary in this for her head was innocent of that abourd rear-extension common to so many of our girls and which makes them look like a cross between a Hottantot and a flet-head In-

dian Doris looked like ten thousand other young husiness women in her tight-fitting black gown relieved with white cufflets and collar, the latter fastened with what looked like a crudely decorated dinner-plate, but known to com-

merce as a "hand-painted ministure brooch." To do Doris full justice, she had her doubts about the brooch. She did not know the lady painted thereon and wally did not like her face, nor her carelessly arranged hair, nor scanty drapery, but since it was a gift, and she was afraid her cost would some day drag off

her "good pin," she decided she would she wished the cost would be the means sin. of ridding her of the present, and that

at no distant day. It is only the most extraordinary women who ever are truthful with

themselves and have the strength to throw away, give away or put away, anything that they ever got for nothing or at a great burgain, no matter how much it jurs on them.

Doris was like the rest of the ten thousand. Tidy, nest, quiet, very efficient, reasonably prompt and with the outward notiones of Job and the inner impatience of most of Rye's daughters with those with whom business brought her in contact. She had the harny knack of looking as pleasant as the cat that are the canary, no matter what her It was Saturday afternoon and her

employer and all the boys employed in

inward feelings

the studio had departed to bolt some sort of a luncheon and hie themselves to the first baseball game of the senson. leaving her to close the studio and finish the week's work, of which there are a great many odds and ends in a photograph studio, especially when it is not a thousand miles from Broadway and making a strong bid for theatrical work. Doris attended to the reception room. She met the customers, arranged for sittings, secured advance payments, often a task which required enough tact. diplomacy and skill to qualify one for a foreign diplomat, and which Doris referred to contemptacoaly to her friend

the dark-room man, as "prying them She listened to all complaints from customers who thought their proofs ought to be speaking likenesses and at the same time, beautiful as the dawn, She did not confess to herself that when they themselves, were as ugly as

loose from their coin

She could sooth, flatter, caiole, hypnotize, pacify, modestly suggest, freeze, demand, or shrivel with a look-all as occasion demanded. She kent the hooks in shape, sent out proofs, put work through in a rugh or kent it forever dallying on, waiting the arrival of the magic deposit that would sent the photographs on their way to completion, rejolcing.

Resides it was her duty to supervise an unruly force of hove who did the more or less mechanical work connected with the "portraits," put up with the vagaries of the operator-the chap who took the pictures, for he was quite a ownius in his own way and came perilonely near being really artistic on his best days.

All this Doris considered merely part of the day's work and did not worry over. The chief trial of her life was her employer.

He was a sly Irishmen and absolutely unique for he had utterly no senso of humor. He had watery blue eyes, a face typical of a comic page "Pat," pale vellow freekles the size of a gold dollar. a squat square flower with long army that made him look unpleasantly like an one and to can it all, very long, boshy red hair which he wore a la

it made him look "arristic"

He belonged to one of those shourd would-be Bohemian clubs which meet once a week in some tawdry hotel, have a dinner and talk shop, or pretend to, which seems like the same thing, but when you come to think of it, is not. No, not by a jug-full. That last ecctainty has no place in this story, for who ever heard of a full iner at a near-Bohemian dinner?

This remarkable specimen specied a name which savored of the French the mere sound of which served to send Doris into a spasm of disgust. He was an unreasonable, rude, irritoting bundle of conceit and preferenand Dorle who had christened him

used to pray that his other interests would keep him away forever. Like many recontionists she had offen wrathfully vowed that she would

"quit some day," and thought better of Fluffy was not entirely idiotic. He

had his lucid intervals. He considered Doris really quite an unusual girl and more valuable than she knew. But he took precious mond core not to let her suspect his opinion and was careful never to be too disagreeable, too carping, or too driving. He would went his

ill-nature whenever he could, but knew just when to stop. When it came to knowing how to load a camel, Fluffy was an expert. He could role on a staggering load, but

trust him to withhold the lost tiny straw that would break its book Thinking of his last piece of mean. ness. Doris was in a had burner and the discovery that the printer had not made

some proofs that should have been mailed away that day, did not improve mat-She hunted out the negatives and

looked across the surfaces. "Bother! Not retouched for proofing." Seating herself before a retouching case she proceeded with a deft peneil to eliminate some barsh lines in the face chrysenthemum, fondly fancying that

of the helle of the boards before her It would not do to let that actress one even the first proofs, disfigured with those lines. Doris knew that well anough and fanoised the seems should they he left. Why, she would come down in a tearing rage. Those lines in her face? Never, peyer, never! What kind of a camera did they have envyeav? So Doris smoothed and flattered Then she clanned the glass plates in-

to printing frames skinned out the door the roof where she spread them out on a shelf in the sun for a few moments. The six was warm and spring made itself felt in spite of difficulties even here, goodness knows how many feet above the street.

"Floffe" on account of his forcy heir Doris drew in long breaths of the bulmy air and after the proofs had been exposed long enough whisked them out of the frames and into a box out of the

light and lingered

She took long deep breaths, and, shoulders thrown lack, paced up and down doing a little exercise recommended to round out the chest which she had med in a Sunday newspaper and forgot all about Fluffy, her troubles and the fact that the building was doubtless entirely empty by this time, and the

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studio wide open. For perhaps ten minutes she thoroughly enjoyed herself but her mind did not allow her much forestfulness and suddenly reminded her, stopping

the calisthenies short. She hastily stacked the negatives into a little pile and, as she could not manage the clumsy wooden frames and the negatives, the proof-box and her stricts all at the same time, she decided to risk the wreth of the printer and leave the frames behind.

As she stepped through the roof door and locked it behind her she started at a noise below. The stair was pitch dark now that the door was closed and some instinct made her draw herself closely into the corner.

bottom of the steirs she saw that the door there was not quite half open and the dim light from a court window threw a pale gleam across the floor. There was a shadow errersing across

is which she watched brouthlessly. It grew larger and larger, drew back. steathily loomed up again, and the head of a man peered around the door. Doris held her brooth and crouched

lower. It seemed ages that the intruder gazed up the stairway. He did not start nor speak and she knew he could not one her for the derbriess. At last he assemed satisfied there was no one those and closed the door Dorie heard the lock click and the key withdrawn and his cautious footsteps through the entry leading to the studio.

Her hand flow to the necket in her apron. There, benesih her handkerchief and the letter from Aunt Mary that had come that morning, was her bunch of keys, Mechanically, she found

the one to fit the door, while she considered the situation. She had not seen the man plainly but had a seneral impression of curly hair and a count face half concealed by a masking handkerchief. That sixth sense with which she was as well endowed as any woman, told her that

though he was a hurdar, he was new at the business and very nervous. "I wouldn't wonder if he'd be more scared at the sight of me than I am of him. Wonder what he is after. He might know the boss would not leave any money in the place on Saturday and-the lens! The lens! Fluffy forgot

to lock up the best lens! The one in the hir camera, the pride of his heart." She had often heard him dilate on its merits, declare there was not another one like it in America, the fabulous volue he put upon it, the incredible price he claimed to have paid for it, and

the vengeance that would surely fall upon anyone who would harm it in the smallest particular. With horror she remembered that the first thing a thief would seek in a pho-Peering through the gloom to the tographer's studio would be the lens. A feer turns of the wrist and he would have it unscrewed and dropped into his pock-

et. It would not take two minutes. Perhans he already had it! She put the negatives down on the ton step, carefully gathered her skirts around and stole down stairs still grasping the little box of proofs.

By this time she was calm enough to remember that the fourth sten ereaked and that she must be careful to step over it and to be thankful that her shoes were noiseless.

At the bottom of the stairs she paused and listened. Not the faintest sound. She inserted her key and listened a moment before she turned it. She felt sure that if her burglar was on the other side of the door, in the entry which onened into the studio, she could have heard him breathe, so intently did she

"It would serve old Fluffy right if he did loose that lens," she thought. "If



"Empty your pockets!" she said sharply.

I had any sense I'd sit down here and let him carry off the whole place for all of me." Nevertheless, she opened the door and stepped out, closing it behind her ofter a swift clance around. So far so good. Almost opposite was a door leading into the studio. To this

she crept. There was a heavy velvet curtain, its stiff folds falling straight to the floor, hanging there. Very cautiously Doris peeped through the tiny orening in the middle. She commanded a view of the reception-room, the dressing-rooms and part of the studio

There was no one in sight. The camera stood in the centre of the room just as she had left it, its black hood flung engelessly to one side, effectually preventing her from seeing whether the lens was there or not

She hed almost decided that the thief had some, when he glided out from behind some scene-screens. He was evidently just finishing a cautious tour of investigation for he stopped as if sutisfied with the outlook. His face was turned away from her and he could not have heard her stifled exclamation at the sight of the ugly revolver in his hand, for he did not turn.

He was glancing shout as if puzzled. "Hum." thought Doris. "Bet he has never been in a studio before."

He opened a wardrobe in a corner and ran his fingers through the pockets of Fluffy's costs hanging there but found nothing. Doris' purse lay on a shelf and he rifled that

"There goes my week's salary." she thought mournfully.

Then he came toward her hidingplace and for an awful instant paused so close to her that she was certain he must be able to feel her body behind the curtains. But he morely twitched the mask a little higher, went into the office and began to rummage through

the deek That, Doris kept looked, for it contained her box of powder and post. She al- Her tone was unmistakable. Slowly, as

most laughed as she watched him working away at it. There was a small table at one side of the desk and slightly behind him. On this he laid his revolver and went to work at the lock with feverish haste. "If I only had thet gun I think I

could bloff him with it. I must have it! When he gets that drawer open he will be crazy and might start to wreck the place just to get even. Then he might see the lens and take it on a chance and if he ever sees me-When!" Thun she tossed the box of proofs on-

to the table to announce her presence. It struck the polished surface with a smart slap and had the effect of a bomb on the stillness and the hurgher's nerves. He started violently and wheeled around, reached for his wespon and found it in the hands of Doris

"A girl!" he gasped and sank into the chair beside him, silent She was prepared for defiance, cunning, even for a spring, but that unmistakable air of shame surprised her. She

stared at his masked and everted face a moment, struck with his aspect; somehow he looked elmost familiar "Empty your pockets!" she said sharply

The hurgiar did not move "Onirk " she commanded in such a tone that he made clumsy haste to do so, turning out some soiled handkerchiefs.

a knife, and her little roll of bills which she recognized by the rubber hand about there. The lens was not in the nile on the deck when all his pockets were inride out "Don't seem to be much in your busi-

ness " said Doris scornfully. "Take off your can!" Slowly he pulled it off, revealing an unkept mass of black curls. "Now the mask." The bureler hem-

fetet

"Please miss ..." he begged. "Let me "No!" oried Doris, angrily stamping her foot "Yes low miscreble thief! Take off that mask or I'll shoot von."

if it was of great weight, he lifted his presently he slowly opened his eyes. hand, swayed, and with a moan slid out of the chair and lay still at her feet. This turn of affairs almost surprised Doris out of her composure.

His eyes were closed and she noticed that his long black lashes had the unword ourl of youth Still fearing a sudden attack she held the wespon in readiness, knelt heside him and suddenly jerked the mask away.

had face though it hore many marks of suffering. His cheeks were sunken and he had the terrible pinched look that tells of starvation. Doris saw he had fainted from exhaustion and her stern "Hungry! Poor kid. Why he's only

a boy. Gee! Just driven to it I mass. sterre or steal. Bet he has been sleening in the parks for a month. What a She not the pevolver down on the desk, run to get some ice-water and bothed his face, no longer thinking of him

as a burglar to be feared but just as a starving box "My, no wonder he looked familiar to me. He's a lot like Jimmie. Just his size and just his hair to a dot."

She thought of her brother as she lifted this stranger's head to her knee What if Jimmie, far away in the West seeking his fortune, had hard luck and starved like this boy?

Would be fall into such hands as have? How she would bless the girl thet would help him, instead of velling for the police. Well, she would wait awhile before she velled for the policethat was more. She decided as she smoothed back the hair on the boy's forehead and lossened the collar of his shirt. "I bet you are some girl's brother, maybe some pirt's sweetheart, and I'm going to help you for their sakes

and because I've got a brother too." She forced some of the water between his line and viscorously applied a wet towel. In a few moments there were signs of returning consciousness and

Doris put the glass to his tips and bade him drink, "There," she said kindly, "that will refresh you. "Say," she said suddenly, "I'm sw-

fully sorry I spoke so mean to you a while ago. I didn't know you were starving. Do you think you can walk now? I want you to come out in the work-room. I'll make you a cup of tea

and fix you up in no time." He was a mere lad with not at all a The burgler had not raised his eyes to hers after the first stare of returning consciousness and now the dull red glow of shame dyed his face and neck. "I think you can," said Doris ignoring that, but nevertheless pleased to see "Come on, let's try it." She regain-

ed her feet and quisted him to a chair "There new I'm going to telephone for something for you to est." picked up the telephone and called a restaurant a few doors away, ordering a generous meal, and asking that it be sent up at once.

The hurgist, too week after his collurge to speak, watched her in silence as she unlocked the studio door which he had locked to prevent discovery from that side, picked up his fallen mask and esp, made a bundle of his handkerchiefs and knife tidied the desk and personnel traces of his work at the lockad drawer which she opened with her key and into which she put her bills and last of all the revolver, but she did

"There," she said turning to him. "That is to show you that I trust you. I know you are no more a hurgier than

I am. " "I---I" He began brokenly. "Not a word," interrupted Doris. "You are too week to telly. Come out. here." She held out her hand and help-

ed him to his feet. Once out in the work-room she installed him in e chair, drew up a small table before him and brewed some tea. Presently the bell rang and Doris opened the door to a man bearing a tray laden with a steaming meal which he merrily, "Pitch in ! He tried to thank her-to stammer an apology, his eyes full of teats and his voice husky as he hung his head in miserable shame, but Doris refused to listen and bustled off to the other end of

the room. There, she drew out the letter from Aunt Mary. It contained a ten dollar hill which she wrote was to be used only to extend Doris' vacation from one short week to two

She looked at it, a long time, her mind conjuring up all the delights of an extra week in the country and reread the part of the letter which said so positively that she needed a rest Then she put it back into her pocket

with a little sigh and tried to forget it. When her guest had finished she re-

"Let me thank you," he begged, his eves now meeting hers. "You are the

"Never mind that," said Doris hast ily. "I suppose I ought to have turned you over to the police, but-well-you don't look like a real crook. Tell me. what made you do it? Did you ever do anything like this before?" "Never! I-I was starving, story-

"That is a dreadful thing but stealing is worse. I'm not ming to lecture you, only, don't do it again. Perhans if you had found someone else here you would have been in jail by now. Think of it! A young man like you, with his whole life before him ruined at the start

by a thing like that. You were nearly a thief but now....." Just then she heard the elevator-hell ring, far below, the unmistakable three sharp rings of no one in the world but

Oh Heavens! Here's my boss! Oh dear he has remembered the lens. He will be here in a minute. You must on She rushed into the other room for his things throat them into his hunds and burried him to the door

"Don't be afraid." she whisnered "Nobody knowe about your being here and I'll never tell. You were only down on your luck, that's all. Here is come money-take it and get a new start,

Now go!" "No." said the lad firmly. "I can't take it." He seemed puzzled at her agi-

tation, his glance taking in the empty dishes on the table, his look question-"Oh, I'll say I was kept late by work and ordered a lunch in." she answered.

reading his thought. "I can explain, It will be all right, if only the boss don't The elevator was coming up and she

was frantic "Run down the stairs, quick! Don't make any noise," she implored, elosing his weak fingers over Aunt Mary's bill. "It's for my brother's sake I do this. Plesse take it and hurry. Do you want

to get me into trouble?

"No. I'll so and I won't forcet what you have said nor what you have done or me." He turned then end went down the stairs without enother word Doris closed the door and made a dash for the chair at the table. The elevator-door slid open and in came Fluffy. "You here?" said Fluffy, moning his

"Yes, I thought you'd be back and I did not want to so away and leave the She ran up stairs for the negatives she had left, but them in their places.

got the proofs ready to mui, slipped the revolver and bills out of the drawer and into her purse unobserved and telephone ed to have the dishes removed Fluffy, muttering and growling to himself, had put his beloved lens in the sufe and had departed with power a

word of thanks. Doris waited until the waiter who came to remove the dishes was gone, and then, being only an ordinary girl. out her head down on the deek and burst into a storm of relieving tears.

John Ross Robertson

CANADIAN PUBLISHER, PHILANTHROPIST OF COMPLEX AND CONTRADICTORY CHARACTER AND ODD HORRIES

By W. A. Craick

There explit he no more interesting subject for a racy character skatch than John Ross Bebertson, the newspaper publisher, the philanthrorist and the hubbyrst. In his carror the accentrication of evening are revealed at almost every stage. But while he may be the opposite of men, he is unfouttedly an outstanding figure in many ways, and the story which centres around his rise in business, his generous support of good causes, and his persuit of old hobbies is, indeed, unless. This sketch reweaks some of the more dominant characteristics of a community versionality

GREAT deeds are sometimes wrought by strange people, and a rough exterior often conceels a kindly heart. The world is full of contradictions. In a sense, John Ross Robertson, Toronto's publisher-philanthropist is one of the it most opposite of men. It would be natural to assume that the great-hearted patron of the Sick Children's Hospital was a man of soft and winning personality, gentle and kindly in manner, smiling and friendly in appearance. But outwardly at any rate, the man belies the description. His aspect is that of the dour Seot, his manner is ofttimes gruff, his features set in a mould of unalterable sternness. One must needs brook the outer shall with all its peculiar characteristics, before one arrives at the true inwardness of this composite personality.

Ross Robertson's chief title to distingtion rests in his perculase andervors to alleviate the suffering of little children. Himself keenly sensitive to pain. his sympathies have gone out to all afflicted mankind, and his great philanthropies have been in the direction of

providing medical help and bodily comfort for diseased and injured children. The great monument of this work stands on College Street in Toronto, a lasting memorial to the man who reared

But there are three personalities in the Robertson make-up and, while the philanthropist is the most outstanding by reason of its wide appeal, the other two are none the less interesting. Indeed, in Robertson, the newspaper publisher, and in Robertson, the hobbyist, are to be found two decidedly unique studies of temperament. From the standpoint of the man of affairs, his career as a journalist is probably of superior importance; writing for the press, managing and publishing newspapers, has been his life-work, and because of this, these phases of his life are necessarily of greater interest. But none the less, his enthusiastic pursuit of certain odd hobbies, throws a side-light on his character that brings the man himself into sharper outline and relief.

That the boy is father of the man is

well illustrated in his case. The son of

dry goods merchant, he was born in Toronto, on December 28, 1841. Sent himself, end the only way to do this to Upper Canada College while yet a was to set up once more as a publisher. smell boy, he early comized a fordness. To this end he commed a small print, for the printing art. The mind, which in maturity still takes a delight in watching a great metropolitan newspaper come piling out from a big cylinder press, was then fascingted by the mirucle of type and platen. There was a clamour surrounding the dirtiest of printing offices that transformed its squalid confines into a place of vast attractiveness. Young Robertson was enthralled. Nothing would do but his father must purchase a small printing plant for him to play the man with, up

With boyish real he set to work to

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produce his first paper. He had no wild notions of publishing a periodical that would compete with and eclinee existing newspapers. In the circle of his schoolmates he saw a field of action that appeared to offer sufficient opportunity for enterprise. The first issue of the College Times superred in 1857 and under that name and subsequently that of the Ross' Times it was continued for three years. It is not known just how remunerative the underteking was, but young Robertson was a stirring youth, and it is to be assumed he made both ends meet. Following his transferopen to the Model Grammar School in 1860, the young publisher launched another school paper, which he called Young Conada, and ran it for a year. In all this publishing activity, the boy performed every necessary function writing the conv securing the advertisements, setting up the type, printing

the paper and celling it. When he left school, Ross Robertson's feet naturally gravitated towards a printing office, and for about a year his was a familiar face in the offices of the Christian Guardian, the Globe and the Leader where he worked for a time at the case. But it did not suit the other person's ideas into type; that was reached. This detec from the time he

the Inte John Robertson, a wholesale being too much of an automaton. He longed to create and disseminate ideas ing plant and essayed to produce a paper called Sparting Life the evist. ence of which in those auto-baseball days was not a lengthy one. On the demise of Sporting Life, the Grumbler was launched. This was a weekly poper of the satirical type, obviously modelled on the lines of certain English publications. It was an ambitious venture. ceiling for much originality and fearlessness, and for a time it eeemed to prosper. Young Robertson acted as its manager, and Tom Moss (later Chief Justice Moss) was its editor

When the Grambler could publica-

tion in 1863, the Leader took him on its staff as reporter, and for two years he was associated with this old newspaper. Then he transfered his services to the Globs, acting for two years as its city editor. It is said of these days when he was actively associated with the news rooms of the Toronto press, that he introduced the modern idea of bringing in crisp little paragraphs about a multiplicity of happenings, rather than confining his efforts to a ponderous treatment of outstanding events. Be this as it may, he had the instinct, highly developed from experience, of knowing just about what the public wanted.

The year 1866 found him associated with some others as one of the founders of the ill-fated Daily Telegraph, a paper which enjoyed a brief career of five years and then snuffed out, when the John Sendfield Macdonald Government which it sumported went out of power. Robertson, out of a herth, appealed once more to the Globe, and was sent by that paper as its first resident correspondent and business agent to London, England, where he remained for three years.

The turning in Mr Robertson's young man's fancy simply to put an- career as a newspaperman was now

first became associated with Professor had other ambitions, and fortunately Goldwin Smith. The mee of the Professor Goldwin Smith approved of Grange was at that time interested in the publication of a paper called the foresaw the future or eimply took a

them. Whether John Ross Robertson Nation-the organ of the Canada First long chance is uncertein. At any rate,



JOHN BOSS BOBERTSON.

Party. Being in need of a manager, he sent for Robertson, and offered him the position. The offer was accented. and for a year the husiness control of

he had a presentiment that an evening daily would fill a want and ultimotely prove a success. So with the support of Goldwin Smith he established the Eventhe Notion was in his hands. But he ing Telegrom in 1876. During the

elapsed the publication of this paper has been the sole concern of his husiness life. From the publishing standpoint the notable achievement of Mr. Robertson's corner so proprietor of the Telegroon has been the building up hy slow, but sure, stages of the immense condensed advertising patronage which that paper today enjoys. It must be apparent that under modern conditions at least one newspaper in every large city shall control the bulk of this kind of specialized publicity. That the Telegreen has

cornered it for Toronto is a sufficient

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tribute to the perspicacity of its eniding spirit. At the same time, the news columns have not been sacrificed to make way for a greater array of "Houses for Sale or "Domestics Wanted" advertising. It has been the pride of the owner of the Telegram to give the public the most complete news service that a rational expenditure of funds could huy. While lacking the sensational make up of most modern dailies and concealing its good things behind a solid harricade of advertising pages, the Telegram gives excellent value for the money in the way of telegraphic despatches and local news. It might almost be said that a small-tooth-comb-policy has been adopted in ferreting out the news, for there is scarce a happening of the least importance which fails to receive at- proprietor. There was no semblance of

tention. A story still goes the rounds among newspapermen, which illustrates graphically Mr. Robertson's determination to have the Telegrers an accurate mirror of the city's life. In his desire to let nothing escape, he has long been in the habit of watching the other evening papers closely. Whenever be discovers that they contain stories which do not appear in his own publication, there are ructions such as only a John Ross Robertson can raise. The afternoon repers are regularly placed on his desk as soon as they appear, and it does not take the veteran journalist long to skim

thirty-six years which have since their pages and size up the situation. One afternoon, so the story goes, Mr. Robertson entered his office and found the papers on his desk as usual. He nicked up the first one, and observing a scare head referring to some exciting event in city life, he hurriedly seized the first edition of the Telegram to see how his own paper had handled it. He flung over page after page, growing more and more wrathy as his search disclosed no sign of a reference to the incident. Picking up the Teleorem and the paper which had evidently second it he stelled into the city editor's office and gave voice alike to his indignation and his opinion of the editor. For a few moments the air was

> sat speechless beneath the attack. When at length Mr. Robertson had cooled down the editor took up the other afternoon paper and pointed out that the charges were entirely unwarrented for the simple recent that the paper was over a month old. Evidently through some excelessness on the part of the porter, an antiquated copy had found its way to the proprietor's desk, and had been placed on top of the afternoon editions; possibly it had slipped down behind some days before and had been only just recovered in one of the periodical house-cleanings. But, the editor's explanation did not have the supposed effect on the trate

blue while the victim of the analongha

an apology. "Humph." growled he, "That doesn't make any difference. Everything I've

said soes." When the assistation for an all-Canadian news service from England was at its height, it was John Ross Robertson who came forward and made the formation of the Canadian Associated Press a possibility. He has been its president since its establishment and has taken a keen interest in its work. Nor has he lacked enterorise in obtaining exclusive telestraphic service for his own paper. When the Judicial Committee of the Privy Council issued its famous judg-

ment in the Level Crossing Case in which the City of Toronto was vitally interested, he did not hesitate to expend \$2,600 for a verbatim report hy cable on the day it was handed down.

An erratic and impulsive individual he may be, but in the treatment of his employees he has shown himself cenerone to a fault. The Telegram building is a palatial workshop; its equipment of the hest. The men and women, old and young who work for him there either with brain or hand are well cared for While he demands zealous service and can be at times exceedingly arhitrary. yet once a man shows that he is to be trusted, he can find no kinder or more considerate patron.

There was once a proofrender in his employ, who had an unfortunate fondness for strong drink, which frequently incapacitated him. Mr. Robertson put up with him for a long time but finally decided to dispense with his services. He scribbled out an advertisement asking for applicants for the position, meanwhile retaining the services of the old reader until he could get a new one. Strange to say there were no applicants. He sent up a second advertisement. Still no response. This went on for several days and not a sign of a proofreader appeared on the scene. It finally transpired that the man who was to be fired, scenting a rat, bad taken it upon himself to cut out the advertisements as they passed his desk. An ordinary man would have been exceedingly wrothy at this procedure but not so, John Ross Robertson. There was something intensely human about it which touched his heart. He sent for the proof reader, gave him a good lec-

ture and retained him on the staff, during good conduct. The strongs contradictoriness of the man admits of frequent illustration. Perhans he may be walking along the street when a newsboy accests him with his, "Paper, sir?" The very suggestion seems to irritate him and he growls out. "No." with a ferocity that frightens the poor boy. But the chances are that he

will not have gone twenty paces, before he turns and calling, "Here boy," presses a quarter into the hand of the astonished youth. A creature of impulse, his first instinct is to resent vigorously any interruption to his plans or purpose; then, realizing in an instant the pain he may have caused, his whole being responds to a countercurrent of feeling and he swings to an extreme of generosity and kindliness.

Many stories are told of the almost mixatic exhibitions of his greatheartedness. On one occasion as he was leaving the Sick Children's Hospital with Mrs. Robertson he noticed a shahhylooking, bedraggled old woman, sitting on the step at the entrance. Invariably curious about everything and every person who crosses his path, he naused to ask in his gruff way, what she was doing there. Learning a rather pitiful story about her weariness and the long distance that lay between her and her poor home, the children's henefactor insisted on her getting into his carriage just as if she had heen some fine lady and driving her home. It was not a case of handing out a street car ticket, as most people might have done, but of treating the woman as an equal.

He is the kind of man who will unostentatiously perform many kind deeds. One of his workmen may be sick: the Robertson carriage will be sent down regularly, with conchman and all, to take the invalid out for an airing. He may encounter a peddler or a washerwoman in difficulties and though it may he in a public place he has been known to lend a belying band to get them out of their difficulties. There are not a few poor people in Toronto, who call his name blessed, for once he becomes interested in a nerson.

Hospital for Sick Children in Toronto.

his solicitude on his behalf is sure to be lasting. The quantity of coal which he gives each winter to needy people is known only to himself, but that it amounts to hundreds of tons is evident. The option ding example of the man's philanthropy, however, is the

He became associated with it, when it was only a small and struggling institution. He took hold of it with a tireless anthusiarm based on a sincere and fervent desire to alleviate suffering. During his association with it, he has probably spent a quarter of a million dollars in its interests, bearing on his own shoulders a heavy portion of its maintenance charges. The splendid building which it now occurres, the no less excellent Nurses' Home near by and the summer hospital on Toronto Island are all the fruit of his endeavors. A work such as this puts into the shade all a man's imperfections, be they what they may, and he stands forth before God and man as an earnest worker towords a bigh and holy ideal

The third personality in the Robertson make-up, and by no means the least interesting of the three as being perhaps the most human, is the hobbyist. Excluding such commonplace per-

suits as motoring and golf, the number of Canadiane who may be classed as hobbyists of one cort or another is lamentably small. Of the few notable people who do indulge propensities of this kind John Ross Robertson is one of the foremost, if indeed he be not the chief. His main obsession is for historical pictures relating to Toronto and Canada. With him the collection of antiquated prints and paintings, both of persons and of places, has been a perfect mania. He has spent time and money in their acquisition and has put as much energy and enthusiasm into their pursuit as most men would put into their own commercial undertakings.

In addition to pictures, he has also made a hobby of gathering together historical material-books and manuswrints letters and disries. He has followed these to earth with the relentless real of the fox-hunter. At times, practising guile, at other times expending considerable sums of money, he has rarely failed in the chase. London. Paris. New York and San Francisco have seen him hunting around among

their second-hand districts forreting out odds and ends, while at home he is a well-known patron of many dealers in antiques and curios.

MAGLEAN'S MAGAZINE

To illustrate the outbusingte determ. ination of the mon, one needs not refer to a story which he talls himself about his search for a portrait of the first grand master of the Grand Lodge of Masons in Canada. He had certain evidence that this portrait once hung in a hall at Ningara. He visited old residents of the place, and sought to learn from them what had become of it Finally be obtained information that it had been taken to England. On his next visit to the Old Country he at once resumed the search. He had few clues to on by but such as he had he followed un carefully. At length he secretained that a descendant of the grand master. who had been in the Navy was residing somewhere in the country, but where to find him was the problem. He went to a certain government office and explained his errand. With an exaspersting display of red tape, the officials refused to disclose the address of the retired officer, but promised they would write to him at once and secure his permission to give out the information. This was not at all satisfactory to the sager searcher and he determined by the exercise of a little spile to find out for himself. A little questioning of one of the messengers, aided by a piece of silver, served to inform him that the mail would be taken out at a certain hour by a certain messenger. It was then an easy matter to arrange with the latter to show him the letter with the desired address. No sooner had be secured the address, than he took the next train for the place and thus

brought his search to a successful conelusion. Mr. Robertson has not made his hobby a selfish one. While he has undoubtedly taken a keen pleasure in gathering together his collection of plotures, he has been public-spirited enough to recognize that they had a national value. As the culmination

therefore, of his endeavors, he recently to preserve all mauner of documents. presented to the City of Toronto, twenty thousand rare and valuable prints roughly valued at twenty-five thousand dollars. This unique collection, bearing his name, now finds a suitable home in the fine new Reference Library building in that city, providing for future reperations a rich treasure of historical

material. But picture-eathering has been only one phase of Mr. Robertson's work as a hobbyist. He has some further and has derived much satisfaction from collecting material dealing with the history of Toronto. He has published this from time to time in the columns of the Telegram and then re-published it in book form as it accumulated. Five bulky volumes of "Landmarks of Toronto" here now made their appearance. filled with a wealth of valuable information about the city. But with a strange perversity, the compiler has bossed his treasure in unworthy quarters. The books themselves are cheanly made and will not stand the recover of time. Here again one encounters another of the inexplicable features of a complicated character-the willingness to spend thousands in acquiring rare material. the unwillingness to on to a corresponding expense in publishing it. For, after all, this cathering of landmarks is really a bobby and not a money-making enterprise, or there would be some reason in cheap production

Bibles have been another of the collector's objectives. He has acquired a comprehensive collection of all sorts and conditions and probably has one of the heat assortments in the sweld Among his trensures is to be found a copy of the famous britches bible. Then spain, he has made a hobby of books concerning the maurino order. Indeed he has been the historian of masonery so for as Canada is concerned having written four books on the subject and being engaged in the preparation of a fifth. The attention he pays to his own

family records may be reckoned as a

species of hobby, for he makes it a point

letters, telegrams and newspaper references, bearing on his own life, all being carefully filed away. So for as his interest in history is

concerned, apart from the collection of pictures, this may be exemplified in the recent publication of "The Diary of Mrs. John Graves Simcoc," which he edited and annotated. In fact, there is no man living in Canada to-day. more versatile in his pursuits, more systemptic and perservering in his enterprises, and more completely the master of what he has learned than John Ross Robertson. Only a man of great energy and activity, strength of mind and uniformity of purpose, could achieve what he has achieved.

Mr. Robertson sat for Parliament ence. In the election of 1896, he contested East Toronto as an Independent Conservative and went in by a huge majority. It was no special love for the distinction, that influenced him to enter public life. The root of the matter was probably the settlement of the Mantoba School Question, which exercised his mind considerably at the time. He only remained in the House for the one term, resigning before the election of 1900

In the Mesonic Opier he has bold high rank. In 1890 he was Grand Master of the Grand Lodge of Canada and was subsequently chosen Grand First Principal of the Grand Royal Arch Chapter of Canada. In 1891 he succeeded Sir John A. Macdonald as Grand Representative of the Grand Lodge of England in Canada. Again. at the compation of King Edward in 1902 he was perorded the honorary rank of Past Grand Warden of Eng-

If landmarks have placed him emong the historians and if his Mosonic affiliations have allied him with many erest and powerful names his interest in hockey has endeared him to thous ends of young othletes throughout Ontario. He is in a sense the father of hockey in the province, the man who

gave constant support, often sacrificing much of his time to its interests. A many sided character and interested in a vast number of subjects it is by no means surprising that John Ross Robertson should be a person-taster The Scotch in his make-up discloses itself conspicuously in a fondness for hearing preachers wag their tongues in orderity. He is constantly on the watch for the visits of celebrated divines and has probably heard more noted elergymen deliver sermons than most men of his age. Scated in that characteristic attitude of his with head throat for ward and those stern features bent fixedly on the speaker, one could readily imagine him to be one of those old corensting Scotchmon of the seventeenth

Yet with all that steld seriousness of mind and deportment, John Ress Roberton is by no means bereff of a sense stern solemaily, there like hidden a bubbling well of good-following heat stores are readered all the more piquant by reason of the very contrast between the gravity of the min and the threat heat gravity of the min and the predilection is for the darky type of meclotic, of which he has good store,

century, to whom long-winded discours-

es were the very breath of life.

for he has travelled and sojourned a great deal in the southern states and has picked up a lot of stories from per-

so all experience.

The amazing use which the colored folk make of long words invariably amuses him. He often tells of an occasion when he was staying in a southhead of the color of the make to propure one of the bath of propurs one of the bath of propurs one of the bath of the profuse and with profuse apologies informed him that he would have to take his bath on

manipulate" the water up to the flat

on which his room was looted.

Mr. Robertoop, has travelled a great deal and with that restless energy of his, he ness everything that can be seen. It is a great pleasure to him to pick up all sorts of odds and ends, particularly articles of historical interest; to mingde with old characters and to observe manners and customs. If it mind as well-stored, if his over-violation or great way.

years of globe-trotting.

The many-defones of his personality renders it almost impossible within the limits of a mageniae article to do adequate justice to all his settirities. As a many constraint of the control of



A Legend of the War of 1812

HOW "BILLY GREEN, THE SCOUT," LEADING 700 CANADIANS,
ROUTED 400 AMERICANS AT STONEY CREEK

By A. Langsford Robinson

Historical societies throughout the Davilation are rendering a whatship public service, national in its cope and character, in the gathering of data relating to Canadian history. Inagely on a result of these organisation have been reviewed of interest in recent years in historical insidents, many of which have been brought to light through forestigation and recentred. Among these in the stars of "Filly dever, the Scount," which con-

SOBER history tells the story of the victory of 700 Canalian Millian over 4,000 Americans when the fortunes of 4,000 Americans when the fortunes of Cook. But history—with her passion for solid facts—has made no mention of really forces, the Social. Two 10th is mouth to most the Social. Two 10th is mouth to most the real of the social facts—has made no mention of passion of the social facts—has made to the social facts—the socia

ore of the 700. This is what hefell.
In 1833 here dwalt in Solfnet
Township, near where the city of HamTownship, near where the city of Hamore (Teck, a young man of 19 or 20 years
of age. His father was old Adam
forces, the U. E. Leyvilsis, who had miforces, the U. E. Leyvilsis, who had miocseer homestead was pitched on "the
Gill" which in now Hamilton Mountain. The young man, Billy Green,
Gill" which in now Hamilton Mountain, The young man, Billy Green,
mighbors called him unsociable for he
shunned the companionship of other
less and broad best to ramble through
the and broad best to ramble through

have degenerated into a "nature fakir," and have written nestly illustrated like books on natural history. As it was, he lowed and studied the animals with which the woods were filled—watching them, imitating them, and hunting them till he was almost as free of the forest as they was.

Many were the stories told of his wonderful knowledge of the forest and its animals. Free from any sense of danger he risked hairbreadth adventures in the woods he loved, but his great strength and agility and his knowledge of woodcraft always swung him into safety where other youths of the tourship would have met certain

death. He could imitate to perfection the criss and noises of all the wild things. He could run on all fours adopt. He could run on all fours adopt. He could run on all fours adopt. Fresh the lows, and he was set a become fresh the lows, and he was set a become coasins. He could run up a tree like a wildcat and swing and jump from the to tree and limb to limb swell as any monkey. In short, his abilities made him the talk of the whole countryside, and he was the recognized authority on and he was the recognized authority.



Guard of honor, 13th Regiment, to Earl Grey on his presenting grounds at Stoney Creek to the cubilt in 2011.

life of the forest. Billy Green was an how they were goin' to lick the British."

of June, 1813, Billy Green and his boastings made of no avail. But first brother were away from home, some there was his duty to his own family errand having taken them down in the and friends to consider and the Green neighborhood of

whole country was on tremulous tintoe in expectation of the invading Yankees and though, of course their presence in that part of Ontario was known no one knew evactly where and when they might be expected to anpear. At Grimshy. Billy Green and his brother saw "Them them they was," Billy used to say afterwards as he told the story in the village store "There they was They came with

blast of trampet.

a-tootin' their

horns, all talkin

and boostin' of

Grimshy. The



That was what, in modern slang, got Now it happened that about the 3rd Billy's gost-he longed to see these

> but set off hotfoot through the woods to wern the naighborhood The lade had a eister married to one Corman, a settler from Kentucky. They lived below the monntain at-the lesand has planty of detailed fact he hind it-"Lot 22. Sed concession of Sult fleet," and when the hope had spread their news among the families upon the higher slopes of "the Cliff" Billy

hove did not ston

long to peer at the

invadors from

their hiding place

among the trees

sped down s mountain path to warn his sister.

So for the facts of the story are unquestionable and are matters of well authenticated family history. They are known to and related by Mr. J. H. Smith, School Inspector of the County of Wentworth, and to Mr. John Green. a grandson of the bem of the legend The rest of the story is almost as well

uphstantiated. Down the mountain-side sped Billy to arrive alea! too late. His stater's fare. was troubled as she came from the trim log cabin to meet him, Her Issac, while

brother-in-law hurrying homewards through the woods, alone and free Contiously, he attracted his attention and. drawing him into the concealment of a thick clump of cedars, experly enquired the recent of his release

These were Corman's adventures. He had just dropped a post into its hole and was preparing to centre it when a squad of American soldiers soddenly appeared mund the turn of the road and with levelled muskets, bade him stand. "Are there any Indians round here?"

Overlooking the bettle field of Sister Creek, showing the Gage Homestens, where the

peacefully setting posts for a gate at the end of the lane, had been seized by a small party of Americans and hurried off in the direction of the shore of Lake Ontario. What might happen to him she was almost afraid to speculate. It took Billy Green some time to comfort and recessore his sister, but at last secure in his knowledge of the forest and his brotherhood with its inhabitants he started out with the dangerous object of penetrating the American lines and learning, if possible, his brother-in-law's

He had passed some of the American outposts and pickets and was nearing the main camp on the shores of Stoney onestioned the officer in command of the squad.

"Yes," replied Corman, "there are some Indiana" "Well then, how strong are they? That is, how many are there?"

"Oh! quite a few." Corman was setting rather nettled at the brusqueness of his centors, and when the officer continued the cross examination and asked. "How near are they?" the prisoner lost his temper and angrily replied, "Well, I don't see as it's any of your business

This was more than military authority could stand and Corman was promptly bound and huzried-probably Creek when, to his surprise, he saw his, with the sharp point of a havonet to



One of the striking monuments commemorating the Canadian

hasten his footsteps-down to the Amcrican camp. At the camp a long lean officer before whom he was brought treated him with scant ceremony and poor Corman was beginning to feel that a hard time lay before him, till, by the merest chance, he overheard the scornful one make some casual remark about

"old Kentuck" to a brother officer. This was Corman's one. Leoning forward he hailed the officer as a fellow Kentuckian and further strengthened Itis claims to elemency by stating the fact that he was a cousin to General American "Army of the West" which was operating near Detroit.

In an instant Corman's hands were relocated and the two Kantroleinne fail into a long chat over old scenes and faces; Corman told the story of his lone journey to favored Canada, his marriage with a Canadian girl, and the prosperity he had won for himself in his new home.

The upshot of this lucky meeting was the release of Corman on a sort of parole. He was to go to his home and to stay there as a non-combetant-a perole which he faithfully kent-and be was duly furnished with the pass-word which would en-All this was pe-

lated to Billy Green as they sat concepled in the matiers were on such a satisfactory footing the lad abandoned the woods and returned openly with his brother-in-law, duly giving the countersion when any attempt was made to stop them. At

the homestead they were welcomed with a joy which it is easy to imagine, since nearly the whole day poor Mrs. Corssan had been wild with anxiety as to her husband's fate.

Like a good housewife she set to work to express her satisfaction at his safety in a practical manner and soon the adventurers were busy making up for the excitement of the day by attacking a good hot supper. After supper naturally there was much to talk about and discuss, but Billy Green took no part in the discussion. He sat still, his feet on the table, his chair tilted back effently ing the crowded events of the day. He listened intently to all Corman related -and you may he sure he snared no detail-of what he had seen and learned in the American lines. Billy absorbed it all; he listened well-too well, as it proved, for the welfare of the American

The sun was just setting as Billy brought his feet from the table to the floor, and, rising suddenly, reached for his hat and prepared to go. Indeed Cormon was on the point of ureing him to make his way homeward: "For boy." he said. "I do not deem it safe for you. a Canadian horn, to be seen about here while the Americans are camped so So at sunset Billy started up the cliff noth towards his home. He soon found that the journey was a more difficult matter

than it had been earlier in the day. for by this time the whole country surrounding the great camp of 4,000 men had been strongly picketed, and the woods swarmed with scouting parties. He knew the

countersign and

used it successfully

Measurest to become at Stoney Creek, which is being erected by the Westworth Ludler Historical Scalery,

to pass the sentries posted near the Corman's farm, but even with this knowledge he was liable to be detained and questioned and in his after apporer mediations Billy had come to a resolution which made delay a thing to he avaided at all costs. So as darkness gathered he slipped from the path into the thick woods and prepared to trust to

his own subtlety to escape the soldiers. He crawled like a snake within a few vards of an outpost and, when a leaf rustled and the Yankees peeped alertly into the underbrush he chattered like a squirrel to reassure them. Half a down times his ability to imitate the wild things of the woods stood him in good stend. He had had the forethought .-though this may be legendary embeoidery-to bring an old bear skin from the Cormons and with this fastened on his shoulders he ran on all fours through

the bush looking, in the half dark, like a hear or a large dog. Beine a bear, indeed, nearly cost him his life for he passed within a few feet of one soldier who was also a keen

sportsman. "Wall!" Billy overheard him say, "There are certain sure some game in

these here woods. That was a b'az. I'd a mind to shoot the critter he came that close-but the noise would be waked the whole comp." "Yes siree," growled the deep bass of his comrade, "Twouldn't do. They'd

be thinkin' the British was upon us. And so from both to both, thicket to thicket, crawling like a snake, running like a bear, climbing like a squirrel Billy made his way up the Cliff. Every run was carefully calculated, a sixth sense secreed to tell the how when to lurk hidden and when to make a forward dash, and after eluding a score of watchful scutties Billy arrived safely at his father's farm.

Billy had had a long and exciting day and, but for his early woodland training, he might have been on the point of collarge. But there was much yet to be done and Billy hardly paused a moment in the old farm kitchen but made straight for the stable. Here the family gathered round him and as he soldled a horse he gave them a slight outline of the momentons events of the day. "But what's your hurry?" said his brother who was holding the lantern and who was somewhat hewildered by the rush of word and action, "Where're ye off to now, Bill?"
"To the British Army!" shouted the

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ye on to now, BBIT"
"To the British Army f" shouted the
lad as he pulled the girth tight and
leapt into the saddle, and with a hasty
"Good-bye!" he vanished from the pale
circle of lantern light and clattered at a
callon down the rouse farm mud.

Down the bush noth by Mount Albion he galloned in the darkness round by Albion Mills and so to a point on Hamilton Mountain near the top of what is now James Street Road Here he dismounted for of the exact whereshouts of the British Camp he was unaware, but from the top of a tall tree he could see the flicker of camp-fires in the distance. The camp-it was that of the advanced emerd-was pitched on the cliff overlooking Macassa-now Hamilton-Bay on ground which to this day is called Harvey Park. Leaving the home tied to a tree he dived into a nurrow Indian trail-the James Street of to-day-and pushed and stumbled through the heavy underbrush and empking swamps which covered the site of the present city of Hamilton till be was stopped by the "Halt!" of a British

sonFre His errand explained, he was quickly taken before Col. Harvey, the officer commanding the advanced guard of the forces under General Vincent, and breathlessly proceeded to relate all that he knew of the Americans and their oncomment at Stoney Creek Col. Havvery at first was niterly increduless all the information upon which the British general was acting; for it was believed that the Americans were still occupying Fort George instead of thus suddenly taking the offensive and advancing so rapidly against the British forces. Moreover, the rapidity and secrecy of their advance made it evident that they contemplated a sudden and unexpected assault.

unexpected assunt.

But Green was so much in earnest and told such a moving tale of his difficulties in reaching the British army that Col. Harvey was at last convinced, and

being so, saw at once the advisability of checkmating the Americans by a bold

counter attack.

For the British army was in poor condition to withstand the attack of any considerable force. True, it was well enough entereched in its position at Garrell's Point on Burkington Haights —as traces of the old defences still itself.

Fut it numbered hardly 1,000 men were saffled; they had only of them men were all in rags and many of them were hardyon; they had only 40 or 50 was

tents in the whole camp; food was running short and wont of all, there were last 70 rounds of ammunition per man. And against them, Billy estimated, there would be hotween three and four thousand Americans—3,550 es it actually happened, made up of 2,900 infantry, 400 artillery and 250 cavalry—all well coulined with tents stores and

ammention.

Still, an attack on such an army seemed almost more desperate than the defence. There was a chance that a real surprise—but then the woods—the darkness—to act on the offensive so suddenly would be very difficult. The

"Can you guide us?" he said suddenly to Billy who had heen watching auxiously the officer's troubled meditations. "Guide you!" reptied Green, "Why, there's not a hash or tree in the district that I don't know. I'll guide you safeby. I'll land you—in the name of the

Colonel reflected

Ring, I will."

There was a hasty consultation between the officers and so important was Billy's news that it was decided to risk all and make a night attack at once. Col. Harvey—made acting Adjustant General for the occasion—war to march his solvanced guard to the attack under Billy Green's galdware Com. Yanton State of the Control o

port, if necessary, at daylight.

At eleven-thirty, Harvey's little army started forward with Billy at the acting General's side. It was a tiny force to attack an army of 4,000, an army which

by now, as could be supposed, would be pretty strongly enterpedo. All tole, larvey had but 704 men; there were two companies of the St Milog under Major Ogitrie and five companies of the Other Major Ogitrie and five common "Lincolns," settlers from Lincoln County, the "Green Tigers," as the Americans could them, from the feedly of their stateds and the green Gongo on their fixed and tatteed uniform of their fixed and tatteed uniform of their fixed tatteed uniform of their fixed tatteed th

Down the rough track of King Street -the main road then as it remains today-the little force marched in silence and caution till called to a halt at a point near Red Hill within a short distance of the sleeping American camp Here instructions were issued to the officers and Billy Green described to them the dispositions of the sentries and outposts and indicated the most voluce. able points in the basty defences of the camp. It was now 2.30 in the morning and soon the pule light of the June dawn would awaken the sleeping camp With redoubled caution the soldiers followed Billy's lead and one by one the enemy's outposts were seized and sileneed. Two sentries were found sleening at their posts, leaning against trees, and indeed, so unexpected was the attack and so well did Billy guide the attackers that even the waking sentries were disposed of without a suspicious sound and the British advanced unopposed to the very edge of the defences whence they could see the cooks already awake setting breakfast for the sleeping troops

who were to start at 4 nm. to surprise the British camp at dawn. They had a rade swatering. Into the alarmed camp lacete a wave of the content of the camp and the camp and adding to the enemy dismay by large the morning sir with load whops and loads near-cits. Though Harvey had not a simple folium with him this notes and considerable effect for the Ameritael Considerable effect for the Ameritael Considerable effect for the Ameritael Considerable of the Control of the many holys and side. In fact the submany holys and side. In fact the subden attack democralized the Americans utterly and in spite of many spillant rallies and the desperate efforts of the officers to hold their men together few of the 4,000 stayed to fire more than one wild volley at the attackers. Even their artillers did little damages

Twen tour activity and title damage. A Considing explain lost against charge on the American hattery to be killed, and the charge of the American hattery to be killed, and the charge and turned the persons of the charge and turned the persons. The Kentical candidate possessors. The Kentical candidate possessors. The Kentical candidate in their gallant, but ineffective, charge through the British runks. General Chandler's desperate fanking movement was cherked by the

49th and the General himself captured.
All along the line Canadian luck held
good and long hefore there was light
enough to show them the smallness of
the attacking force, the Americans were
in full and puniosatricken retrest.
But all this is history. The histories

But all this is history. The histories will tell you of the game we took—the tents—the stores and ammunities which we so sorely needed. Two Generals, Chandler and Windor, many officers of lower rank, and 124 men felt into cut honds as personers; and if Vincent had brought up the main hody entry of the property of the property whole body of fleeling. Americans as the have been driven off Chandlan and.

have been driven off Cannelian soil.

And it was Billy Green's victory.

Thereafter he have se a title of honor the name of "Billy Green, the Scout."

And though he joined the Lincoln County Militin and wore the white uniform which his grand-thillyten still treasure, it was his great exploit as a civilian that cave lustre to his name.

civilian that gave batte to his name. When you visit Hamilton and the motor turns out of King Street and climbs Red Illill; when you see the new monument and the battle relies in the American headquarters—the old Gage Homescod which the Wentworth Computation of the Computation o

The Pulling Force in Business

THE WAY TO GET BUSINESS IS TO GO AFTER PLATHAT IS THE WORK OF THE SALES DEPARTMENT-THE MODERN METHOD MEANS SUCCESS

By Walter H. Cottingham

The writer of this article is a Caradian, who as a boy got some busizers training in his native village. From there he went to Montreel, and in time became manager in that city of a branch of a United States paint concern. He developed into an unusually brilliant salesman and arranders. doing so well that he was offered the general sales managership in the States, A few years ago he became general manager, and more recently president of the entire business, with its factories in Canada, the United States and Europe, and employing a very large value force. In this article Mr. Cottingbun tells how a great reiling force is organized and handled.

THE way to get business is to so after mend for their products. They sell it. To so after it is the work of the will get it.

Selling is the great thing in almost place. every business. Getting rid of the product in volume at a profit is the object. and at the same time the test, of a successful business man or a successful business organization. This world in which we live is a great marketolace. and all the people in it are tradershavers and sellers in the market-place. The strife of competition is among the sellers; and the contains of industry are always master traders and master

aslesmen. It's this broad view of the world as a marketplace that makes the business career, with its increasing and limitless possibilities, so attractive to the ambitious man, Men like Morean, Carnegie. Rockefeller and Hill have achieved their great success largely through their shility to create a de-

things in a big way. They possess sales department, and if properly or- imagination, vision and force, and force canized and efficiently managed, they see the wants of the neonle, and are the master salesmen in the world's market-

It's easier to get men to make mode than to get men to sell them. It's easier to get men to handle the ancounting department, the purchasing denartment, or even the financial department, then it is to find men to suceessfully handle the sales department The head of the house cought to be a salesman. The head of the country cusht to be a salesman, with his even on the markets of the world at home and abroad: for successful selling means successful leadership. When the head of the house and the head of the country are salesmen, business is good, and the country and the house are prosperous The great factor in selling is the human factor, and not the things we

sell. The things must be right of

course; but it's people who buy and use groupe demand, not merely to smally the things, and therefore it's people whom we must interest and deal with in getting rid of things. Too many business men are paving too much attention to the things they make, and not enough attention to the people who make them, the people who sell them. and the people who use them. It's not things that make life-it's people. It's not things that make business, it's neonle-neople with red blood in their veins, men and women with bearts and feelings and aims and ambitions --- man and women segmentible to encourage ment and sympathy and training and

The sales department must recognise this difference between things and people. They must understand the importance of the human fortor. It touches all sides of the sales proposition. The efficient sales manager is essentially a manager of men-not things. He must know his line it is true; but far more important, he should know his people...the staff who sell his products the enstomers who hav his products and the consumers who me his newducts. It is the character of his work with these three classes....the staff the enstormers and the consumers that determines his canority and his success The staff must be made efficient, loyal and enthurinstic: the customers must be made permanent and friendly and the consumers must be made estimated users and enthusiastic supporters

The great thing is to link up these three live factors in the selling proposition, so that all work in harmony and close co-operation for the advancement of the house and its products, and--quite as important, for the advancement of each other. First in innoraance is the staff-the inside staff and the outside staff-the house force and the field force. They must all be imbued with selling spirit. They should all be relarmon from the office boy and telephone operator to chief clerk and manager. They must work with each other, and not against each other.

demand—that is the business of the order department.

Some men who call themselves sales managers and some men who call themselves salesmen, are simply ordentakers. Goods require no sales department. All that is necessary in such a case is an order department. The master salesmen is one who een create housness, new business or a demand for some new article of business. His is the cenius of the inventor and the dis-

The development of a successful selling organization is a great achievement It is not accomplished in a day or a year or five years. It is a process of careful selection, patient training, firm lest affable discipline and persistent enthusiastic effort Training a selling force is like training a fighting force. It demands leadership of a high order and practice, practice, practice, and drilling drilling drilling in the horracks or the house, and in the field or on the territory. Napoleon and Cromwell were preof military leaders because they knew how to drill and train their men, how to inspire them, and how to reward them. They worked them hard, but they encouraged and rewarded them when they did well; and every man know he would be judged solely on his merits, and that the hickest places were open to his courage energy and ability. And let me add those creat leaders themselves set the race The same treatment of a selling force will produce the same results-victories of pence instead of war. Training such a force involves organization and systern. The head of the organization should be the biggest man in the basis ness. He should be a moster of system

The bend of the sales department should be responsible not only for sales. but for advertising, for traffic, and for the distribution of the resolute Heshould direct all that relator to the selling and harolling of the goods after they are delivered by the manufactur-Their united aim is to create and in- ing department to the shirping depart-

and a leader of men

the service to the enstomers which plays such an important part in build. ing up a successful sales organization All advertising is selling; and, therefore, in order to insure the right kind of co-operation, the advertising department should be a branch of the rales denartment which necessitates the head of the sales department being a competent judge of advertising, as well as selling. The distribution of the product, whether direct or through branch houses, involves service to the customers; therefore, the traffic department, which directs the movement of the goods, and the branch houses that handle them, should come under the management of the head of the sales department. In no other way can the most efficient service be well secured. The sales department should have an equal or controlling supervision in the credit and collection departments for the same reason that it affects so intimately and in the case of these depart-

Only in this way can be

thoroughly and effectively influence

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ments, sensitively, the service to the enstorners The efficiency of a sales department depends altogether on the character of the service rendered the customer. This involves quality, value, shipments, correspondence, advertising, and above all. the ability to create a demand. Selling the goods is only the beginning of contact with dealer or consumer. We must make his interests ours as long as we do husiness with him. The service should be as far as possible personal. Make your customers feel they are dealing with men-men who are interested in their welfare and success, rather than with a corporation, which is usually considered soulless. If the service is personal, they'll feel that way. The danger in corporate management is in its being impersonal and machine-like. The "personal touch" counts in basi-

ness as it does in all things relating to homan intercourse. Creating a demand is the sales department's greatest achievement. The time has gone by when coods, no matter how excellent will sell therowhere The quality may be the highest or the price the lowest but that alone will not sell them. They must be made known to the consumers in a way that the consumers demand them and will not be satisfied with substitutes. Advertising hacked by quality and service is the great agency for creating demand. The advertising must reach the consumer and secure the whole-hearted co-operation of the dealer. Advertising that forces the dealer unwillingly to handle the product cannot be wholly or permanually successful. The dealer's good-will and enthusiasm is as necessary as the consumer's in any plan involving his aid in distributing the product. The dealer is one of the important links in the chain of distribution and should be considered in all selling plans as a live part of your organization. Make it pay him by providing for a fair profit and belging him move the goods in large volume, and thus gain his co-

operation and add his staff to your own selling force With regard to the relations of the sales department and the manufacturing department, they should be very close and heartily co-operative. I have found a committee composed of the heads of the sales department, the advertising department and the manufacturing department, to deal with matters all are interested in, is the best means of setting intelligent and prompt action. It is the business of the sales department to make their requirements and wants known to the manufacturing department. The manufacturing department should be operated for the benefit of the factory. The sales department serves the customer, and the

factory serves the sales denartment. And now comes the important matter of working the territory and distributing the products. In the case of a national concern, the country should be divided into districts, with headquarters at the great distributing centres. If the country is to be worked closely, the districts should be further divided into divisions, these division points reporting to the district headonesters and all worked as one unit in the general scheme of distribution

The district manager should have entire charge of the business, sales, advertising, shipping, accounts, etc., reporting to the general manager of sales and distribution for the entire comnamy. The division rules managers should be free to devote all of their time to selling the goods in their division, reporting to the district manager on sales only. The sales division should not be larger than one sales manager can handle personally. So much depends upon the close and personal co-operation of the manager with the salesmen. When the sales force becomes larger than one man can handle, a new division should be made, with a view to working the territory more closely, and

always intimately. The districts having been divided into divisions, the divisions are divided into territories, and a traveling represcutative is assigned to each territory, all districts, divisions and territories being carefully laid out with a view to the antekest and most economical traveling and distribution of the products. Every town in every territory, and every customer and possible customer in every town, should be listed and worked by the representative and the sales department. No man, guilty or not guilty. should be allowed to escape the vivilance of the sales manager or the salesmen. Don't stop here. List your consumers and possible consumers, and all who can influence consumption of your products. Satisfied users can be made enthusiastic and valuable supporters Keen in touch with them all, and tie them and their influence to your oresnization. Make them feel you are interested in them, and they will become interested in you. Your customers and consumers, properly handled can be

made an important and intimate part of your organization Each traveling representative should be given periodically a complete territorial list, with all present and prospective trade listed. He should report on this trade in detail as he visits it, on a specially prepared town report form. The information thus sent in should be carefully and freemently used by the sales department in correspondence and in following up the trade between the visits of the salesmen. Prospective trade, as well as customers, should be kent in touch with in this way. All the details in connection with customers and propertive customers or communers should be recorded on a card system so that you have a live record of the work on each territory constantly before the sales manager

The ideal salesman is more than a

salesman. He should be a representa-

tive not only in name but in fact for

when he enters the enstremen's store he

represents not only the sales depart-

ment, but also the advertising depart-

ment, the manufacturing department,

the financial department, the accounting department and the executive de partment. He represents the bouse He should know these departments well enough to earry out the policy governing them and to co-operate with the house and the customer in all that relates to them. Selling, while a very imperiant part of his work, is not all of it. Only a systematic and continuous method of training will fit him for the position of an all-round representative Now, with regard to the training Fhere should be some systematic method of teaching, and in addition to oral instruction I strongly recommend the use of a manual or bandbook, which should contain the fullest information of the company's goods, its policy and methods and useful information of all kinds concerning the conduct of the

business. It should be of such a char-

acter that it will prove helpful to the

salesman in meeting speressfully the

difficulties and obstacles that are sure to confront him in his daily work I believe in the publication of a monthly paper or magazine for the staff, provided it contains instructive and interesting material. It is a good means of keeping up the interest in the organization as a whole, and of giving recognition of good work done by any member of the staff or any department of the organization. It should be inspiring as well as instructive, and this is something not essily accomplished Frequent bulleting containing information and encouraging news of the

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lusiness help to keep up the interest of the men in the field and can be made helpful in an educational way Special compaigns stir up new interest and new business, and properly handled can be made really productive. Properly used, all these things can be made effective in training, but nothing equals the personal work of the manager in meetings, in the factory and

on the road; here is where the personality, example and leadership of the man counts for more than all else. When you have fully instructed your men, then comes the important problem of handling them which meurs so much. The problem to my mind is not how to get the most out of them, but how to get the best out of them.

While the salesmen should be the manager of his territory, he should be under the close american of his solesmanager, who should direct his movements and he in daily touch with him Orders are expected, but much more the daily report should give intimate information of the customer what he is doing, and what he is not doing suggestions for belging him increase the book ness, information about the town and new prospects. The information should be live meterial and not madess dead wood. The correspondence should be direct brief and encouraging Show best don't harass him with foultfinding nagging letters. His work is not always easy, and often done under discourses. ing conditions. Give him a hand not by "iollying" him but by sincere friendly and effective co-eneration

I am a strong believer in competitions among the members of the stoff and between the branch houses and different departments. Competition inside the

business as well as outside, is stimulating. Anything that will stir us up to special efforts and make us strive to make the most of ourselves is good for us as individuals and good for the business. I believe every man likes to win. and it's a good thing to encourage and develop that kind of spirit. Competitions, too, usually bring the best men to the front, and in this way you discover where the best talent lies. The competitions also afford an opportunity to reward the men who produce special results or make exceptional records. The essential thing in any com-petition is that it shall be fair to all who compete Make sure that only the best men can win. It's Ton-Notchers we are looking for and most men have some tonnotches possibilities in them a great thing is to provide a chance for these qualities to develop. The competition should include more than sales. It should include all that makes for the

successful all-around representative. Promotions wherever possible should be made from the ranks, and nothing but merit should count in making a choice. The theory of "blood being thicker than water"-that money or family connections overton ability and loyal persevering effort, has under mined many a vigorous organization Brains, industry and character should be the test for promotion-and nothing else. Brains and industry mix better in the formula for efficiency than blue blood and social position. Never disregard faithful long-time service. Always take care of men who have done good work when time or misfortune overtake them. You want appressive. ness in your organization always but temper it with considerateness for those who have done their part well. There should always be a useful place for them, and if not one should be found.

Appressiveness you should always have. The fighting spirit should be the dominating spirit in the sales denortment. The spirit to win for the house, for the goods, for the customer, and for ourselves should permente the

whole organization. Pride in the institution, in its products, in its management and its customers is what makes enthusiastic and successful fighters. How are we going to get this vital and priceless force injected into the organisation? You can't inject it. Please mark that carefully. It is something that develops from the inside, and not from the outside. It is the outsrowth of merit, fairness, encouragement, sincarity and character. Unless your management, your house and your products possess ment and deserve localty and faithfulness, nothing you can do will produce these things. You may have pretended lovalty and mock enthusisso, but not the genuine. Enthusiasm and lovalty are things that cannot be forced. Therefore, see to it that your products are exactly what you represent them to be: that your methods and policy are fair and liberal alike to the staff, the costomer and the commer. On the walls of my office is a motto of my own making that I keep constantly before me: "Merit begets confidence, confidence begets enthusiasm, and enthusiasm conquers the world." If your proposition has merit. you can't help but have confidence in

imagination, you can't help but become enthusiastic; and enthusinsm backed by merit and confidence, puts the kind of energy into us that enables us to go out and conquer, let the onposition be what it may; and more than that, it gives a rest and enjoyment to our work that makes the effort worth

To sum up, the sales department is the lifeblood of the beginess. It is the feeder for all the other departments and should set the page for the entire organisation. There are other seems of a business than those that appear on the balance sheet. In an efficient selling and distributing organization penetrating all sections of the country creating and supplying demand lies one of the greatest forces and one of the most valuable assets of any basiness. Just as a strong army and nevy mokes o notion secure from investor, so a strong selling and distributing force makes safe the house from the keenest competition. It is a force that is more desirable and more potent than any monopoly-a force that commands admiration as well as support. The selling force is the compelling force and the propelling force. It compels trade and it: and if you have confidence and some propels the business.

Cheapening Life

The worst investment that one can make is that which tands to cheapen life. No man can rise higher than his estimate of himself. He will never pass for more than the value he places upon himself. If he regards himself as a cheap man-and he does when he seeks low associates, when he loses his pride in his standing in the community -- he is deteriorating. He should resolve at the very outset of life to place a very high estimate upon himself. He should expect a great deal of himself. He should refuse to have snything to do with that which would cheapen or lessen his standing among his fellow-men. There is only one standing by which we are estimated by others and that is by our conduct. If people me that we are floating the flog which indicates low flying ideals, if others see us in questionable places, seeking pleasures in questionable resorts, if they see us cheapen ourselves in any direction, they tag and estimate us accordingly,

Review of Reviews

BEING A SYNOPSIS OF THE LEADING ARTICLES APPEAR. ING IN THE BEST CURRENT MAGAZINES OF THE WORLD

How Germany Eliminates Waste

that.

IN THE Twentieth Contury Magazine L. M. Powers is running an interesting series on "The Superior Civilization of Germany," a second article of which deals with "How Germany Eliminates Waste " The lesson which Germany is teaching the World we are sold is that it pays to be good; that the nation that best cares for the human product is bound to ontalistance the nations that think first of products. The writer holds that England, for years shamefully neglected ber human factors. found she was being pushed to the wall by the more efficient Germans, and has been obliged within the past year to adont a system of social insurance and labor exchanges, organized substantially and first developed in Germany by which the saving in human waste

"Practically everybody in Germany " the writer proceeds, "now, is insured against every possible contingency. It is expensive but it is also immensely profitable. It reduces the waste from pauperism, aecidents, sickness, and crime, and as a national asset, makes the German unwilling to leave the fatherland, and angments a patriotism for some time unequalled in any other great nation. By the operation of the insurance lears, two billion dollars have been distributed to ninety-free million aged, sick, or injured workers. Then consider what has been accom-

plished in the prevention of sickness

and the arolan ention of life. In 1870.

Garmany had a nonulation of 44.250.-

000. In 1908, with a population of 19,

000,000 more, there were actually 32,-

there has been enormous

000 less deaths. From 1871 to 1880. the death rate was twenty-nine to the thousand of population. In 1908 it was only nineteen, a reduction of onethird in forty years. No other nation has a record in any way comparable to There is no other country in the world where human life is wroted so it

is in the United States. There is wester from lack of adequate food and health laws. There are more drug shops in the United States than there are beer shops in Germany, and they are more harmful. We have four times as many doctors in proportion to population as they have in Germany, and they do not do as much to keep us well. Our national loss from preventable sickness is undoubtedly four times greater than that of Germany, while we have three times as many deaths and injuries by acci-

dends. All this results in still further waste from pannerium and crime In Germany, everything that education and low can do to prevent presidents is done. In Berlin, in a large hall built for the purpose, there is a permanent exhibition of accident-preventing devices in all kinds of industries. The Germans consider it better economy to preserve the leas, fingers and even of the working people than to try to remedy defects they have been allowed to incur. The nation has learned, what does not

seem quite obvious yet to us, that a man with one hand cannot do as much as he can with two, and that dead men can do nothing. I was not able to discover in all the time I was in Germany how one could commit suicide on a German railway. suppose it can be, and sometimes is, done, but it must require considerable incennity to accomplish the deed. If a German makes up his mind to drink himself to death, no doubt he will succeed in time, but he will certainly have a much longer and pleasanter fourney than when he comes to the same resolution in this country. Wines and beers are ened and nure, and in this, again, is a great economic saxing. There are many more teetotalers in proportion to population in the United States than in Germany, yet statistics show that twice as many deaths are caused by drink and three times as many people are driven insane by drink here as there Everything is done that can be done

to eliminate waste in young life. The cigarette-smoking gangs of corner-loafers, so characteristic of our cities, are unknown in Germany. Young people are kept busy, by co-operation between workshop and school, usually up to the age of eighteen. Amusements are made educative in strictly supervised, and in all large places, subsidized, theatres, Vicious amusements are both demoralizing and wasteful of vitality and brain. In no other country is recreation of so

high an order, so cheaply and easily ovailable as in Germany. It was learned that forty per cent, of the absences of children from school was due to toothache and other preventable dental diseases. It was found that children with defective teeth were, Ly the age of eighteen, from six to eight months behind other children and an effort to eliminate this waste has led in most German cities to municipal core of the children's teeth. In Streedery the ner conits cost of this core is twelve cents. When a dollar or so expended on a child results in better health for it, good investment. That children could not study on empty stomoche also became apparent. Accordingly, in many places the children are now given one

or more meels. Brealen requires par-

cuts to furnish children with knormacky in which to carry their books. The reason for this was the discovery that childcen were emuing longided from carrying their school paraphernalia under their arms.

Germany eliminates an enormous amount of human waste by her wellorganized labor exchanges. There are now over seven hundred, covering practirally the whole empire and through which 1,300,000 positions are filled each year. The cost of knowing at once where, in the empire, work can be had and securing more than a million and a quarter jobs for out-of-work men and women, is a little less than fifty cents for each position filled. Think of the waste, had these people been obliged unintelligently to wander about seeking

By some unusual but wise methods in

dealing with delinquents, Germany re-

veals more of her incomparable thrift.

If it can be shown that a man is squandering his earnings in drink or gambling or any misuse of his wages that results in suffering to his family, he can be taken into court, declared a minor, and placed under guardianship. After that, he works and his guardian sees that his family has the benefit of his wages. Men are sometimes compelled to work out a jail sentence on the instalment plan. They are permitted to work throughout the week, up to Saturday noon, when they are looked up until Monday. Here are two savingsthe money that would probably be wasted in the hours of leisure, and the labor that would be lost if locked up during

There is also a wise and humane use made in Germany of the surning ousome cities old represe who are in the almahouses or who would be there but for this work, are given a pair of shears and a watering not and net to work watering flowers in public perics or along the gree-bordered our lines which circle so many cities, or they trim the edges of gross plots where the lawn-

working hours.

mowers fail to do their work. They carn enough in this way to take care of themselves, and besides help give German cities that enecial touch which

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makes them so attractive Men. who in this country would be loafing on the street corners or advertising some corn doctor with a fore and aft sign, are licensed as Dicastmen. A Dienstmon is a kind of general utility man. You can hire bim for a small sam to go on errands, earry parcels or luggage, or do almost anything you wish done. His earnings are small, but he earns something; he is useful to the community, and his license is evidence

There are numberless small devices and conveniences that all conserve health time and energy Public comfort stations are sufficiently and conveniently located in all cities. These save time and health. The almost total lask of such in American cities would seem to be from design and in the interests of the saloons. On street sisms are often the numbers inclusive of the bouses in that block-a small matter, but another time-saver. In the post-offices now they not only have special delivery, but at a cost of from five to twelve cents letters are called for in answer to personal talethone, or written requests and delivered nithout ony delay Why not?

that he can be trusted.

In some cities, if you wish to move you can go to the police station, register barbor builder

Lloyd George the Man

AN intimate study of Lloyd George, the British Chancellor of the Exchequer, is presented in Pearson's Magazine by P. ent of The Daily News.

Whatever we may think of Mr. Lloyd George's opinions and achievements, writes Mr. Wilson, we shall all admit that he has been already a maker of history. He may, for all we know, rise higher yet. And the recollections the South African War, one thing is cer-

your name at the cost of twenty-five cents, and secure a list of all the vacant houses in that section of the city. If you find what you want, the police will notify the landlord. At the recuest of the prospective tenant, an inspector from the Building Department will visit the house and tell the landlord what repairs, if any, are needed. If the landlord declines to make the remains the inspector has the right to condemn the property until they are made. The directory of a city like Dreaden contains not only the names of the inhabitants but all the essential facts concerning the people, the bouses, their owners, and where on the tax register you may learn the value of any piece of property.

In a word, a city directory is a directory.

not a list of names

Undoubtedly, Germany's triumph is due more to knowledge than to any thing else. In comparison with other countries, she shows a better utilization of the raw materials of earth a greater and more widely diffused technical skill. a higher level of intelligence, and a superior collective wisdom at work on world problems. We have the longest sea-coast of any nation in the world; yet when we get serious in trying to develop our second most important port, we have to send to Germany, a nation alroost without seacoost for an expert

which here follow, written as they are while the memory is fresh, will. I am sure, be received, even by Mr. Lloyd W. Wilson, parliamentary correspond. George's flereest critics, as a real and authentic nicture, derived at close cuart-

ers, of the actual man, It is, of course, well known that Mr. Lloyd George started life without private means. Whether he was right or wrong in his impetuous protests against tein-his crusades did not assist his practice as a rising solicitor in the city of London. He was bere, there, and everywhere, addressing meetings, without fee or reward of any kind, seldom, indeed, receiving a milway fare. On one occasion, when the controversy was at its bitterest, an admirer sent him a cheque for £100, which really there could have been no conceivable harm in his accepting. But back it went, with a polite note, by return of post. No one sequeinted with the facts has the slightest doubt that Mr. Lloyd George has sacrificed what would have been wealth as a professional man to the ardours of high politics.

To-day Mr. Lloyd George is what the world would call quite a poor man. A stateman's tenure of office at \$5,000 a year is precarious. Such salaries must cover years out in the wilderness as well as years in the promised land. If there have arisen men like Mr. Lloyd George and Mr. Burns, who are not backed by large private means, we need not be surprised to find some slight curtailment of the old lavish political hospitality. It is far more important that public men should live prudently within their incomes than that some extra reception or banquet should be crowded into the already overhurdened London sesson.

If anything, Mr. Lloyd George is too indifferent to questions of money-unjust, in fact, to himself. Sometime ago, he had some dealines with a publisher. and apparently he never thought of asking for a royalty for his book. But one of his acqueintances took the matter up. bearded the publisher, and secured terms which made the author at least a

bundred nounds better off. Mr. Lloyd George's favorite time for entertaining journalists is breakfast. Morning after morning he would apnear at these early hanquets, a little hagourd after his late sittings over the Budget, but invincibly vivacious an I cager to fight again the battles of the evening before. It was only under doctor's ordere that he abolished for a time these receptions and took his breakfast more

the Press, in which respect again he follows Mr. Chambarlain Not long ago, he told me that while he would often evade an inconvenient inquiry, he makes it a rule never to misload a journalist. The evasion takes various forms, and there are few expericases more delightfully provoking than a long and merry talk over Lord Hugh Cecil when there happens to be in the air a crisis over Germany. Mr. Lloyd George discusses his friends, and even his colleagues, with genial candor, but he does not hear malice, from which vice he is preserved by his amazing euiovment of buman nature-its foibles and absorbities. When he is most an-

noved, the storm at once breaks with the first gleam of humor. He will perdon auvthing that can be made to serve for a laugh. "This time they did not trouble about your windows," said a visitor to him one morning, after the Suffragettes had

Leen smashing around. "No." he answered. "And it is a wonder. For they usually attack their friends and leave their enemies alone

He was somewhat aroused by Miss Christohel Panichurst's argument that the time had come for breaking show windows since nabody cared yery much about Cabinet Ministers being an acyed. "That is shrewder than some of the things they say " was his comment.

"The public are quite indifferent so long so we are the only people to suffer." The common idea in fushionable socuty is that Mr. Lloyd George is not only a wicked politician but also a kind of fearful gorgou who, in private life. turns his accuraintences to stone. The tenth is that there never was a centler and more trustful ruler of public affairs People call upon him, in the full belief that their lest moment has come, and they find him modest anxious for their visco a good lis ener, and a consum-

rante master of aut. I am merely stat-

ion what is a notomore fact when I say

that Mr. Lloyd George is a great favorite

not only with his political opponents in

the House of Commone, and especially with Mr. Balfour, but also with the Court. He is excellent company, and this counts even with the highest in the

This personal charm doubtless makes him tenfold more dangerous than a less polished diplomatist: but in estimating the secret of his fascination over men. allowance should be made for the elemental quality of his character-a good heart. He thoroughly enjoys doing a kindness

At the late King's funeral, every window had a value. Mr. Lloyd Goorge gave his to the humblest folk. You could see him, hurrying about in his gold lace uniform, with apparently only one thought-what would be the best vantage point for an aged school-mistress, whose evesight had been impaired by years. That this lady should have the best of positions seemed to be his only cause of anxiety.

THOSE persons who are interested in hig construction works which call for wonderful feets of engineering ore furwished with an abundance of material in Wendell Phillips Dodge's article "Anchoring a Skyscraper," published in the Strand Magazine. The "anchoring" of some of the modern structures is in itself a stupendous undertaking, and as Mr. Dodge describes it, is replete with features of interest.

In starting a foundation contract for a skyscraper the first thing that the contractor does is to see that the walls of the surrounding buildings are in good condition, for, if necessary, they must be shored and braced, for even a pneumatic eaisson may disturb the soil while being sunk. The equipment is then brought to the site and made ready for work. This includes installing the aircompressors and connecting them with lines of air-pines, which are laid at con- where it is to be sunk. An additional

His worst enemy has never accused him of snobbery. At his house you meet the friends of his youth, who find in him no difference from the neighbor whom they knew in the old days at

Criccieth. That is the real man behind the statesman. He has the subtlety of a child the instincts of a Celt. On the surface he is all emotion-gay and grave; beneath the surface he is all tenacity-dogged, persevering, even intolerant when he encounters obstacles.

Seeming to yield, he remains masterful: a democrat, he believes in enforcing his He has enemies who will never forgive him; he has opponents who will alwave admire him But the hest about him is that, amid all the tempests of controversy, he has never lost the capacity for evoking personal affection.

Anchoring a Skyscraper venient places over the let, so that they in turn may be connected by flexible hose to the caissons, and thus deliver the air supply to them. The derricks which must be strong enough to lift the twenty ton caissons into place, must be set up in such places that they will cover the greatest area and yet not be in the way of the work as it progresses. Heavy platforms must be built so that tracks can be driven within the reach of the

excavated from the caissons. Room must be made for storing cemeut and other material. Small shops must be built for pipe-fitting work, black-smithing, and general repairs. When this and much more has been done, the airchamber section of the first enisson is brought on a heavy truck and driven under one of the derricks, which lifts it off and lowers it to the exact location

section, called a cofferdam, is then put on top of the air-chamber section—the caseon proper-and sometimes a second cofferdam section is not on immediately thereafter. These cofferdams are sometimes like the niz-chamber section excent they have no roofs and are of light. or construction. Their chiect is to confine the concrete, with which they are removed before they reach the ground level and only the hard concrete filling einks with the misson

The pipe-fitting gang bolts the sections strongly together puts on the ninshaft and air-locks, fixes in one or more vertical pipes for the air supply, another to carry electric light wires to the working chamber, and also a pire at the upper end of which is a whistle for giving sismals. Carpenters have meanwhile bailt a strongly-braced frame amound the existent to act as a stride while the sinking process takes place. A concrete, mixing machine is started, and the concrete is filled into buckets and heisted an end then lowered down into the cofferdams and deroxited on the mof of the caisson. It is all done in the hopskip-and-jump quickness of circus hands-boss tentmen-setting up the "big top" and making ready the three rings and other circus "foundations" hefore the opening of the "hig show." When the foundation company breeks ground for the high, higher, highest

buildings in the world, it looks for all the world like a circus layout The "sand-hoes"—the men who work in compressed sir-now on down the shaft to the working-chamber and begin to dig. excavating the earth uniformly all over the area enclosed by the coisson The material is besited in a bucket and dumped into corts, which take it to serves sent out to see for its finel disnosol As the earth is due out the esisten settles by its weight and that of the concrete which is being continually added above the roof. Soon the ground begins to get wet and then, by opening a valve, a small air-pressure is admitted to the working-chamber, the pressure being just enough to force the water out and

make the sand or clay dry. This process is continued until rock is reached. Of course, the deeper the cuisson goes the greater is the pressure of the water trying to force its way into the morking chamber, and this has to be overcome by constantly increasing the air-pressure. For a column of water sixty-eight feet high the air-pressure must be about thirty pounds per square, inch, above that of the outside air, or forty-five

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pounds per square inch When all the earth has been removed and the mek cleaned off, the next thing is to fill the air-chamber with enverte This is well rammed in place, the work being done from the adms towards the centre, so that finally the concrete extends, tightly packed, from the rock to the roof, and only a little space is left under the shaft, the space being the smallest that one man can occupy while he empties the last backet of concrete and, this done, he goes up the shoft which is then filled by throwing in concrete from the ton-

Let us see now what has been accomplished. Resting on the rock there is a solid mass of concrete, rammed tight assinst the roof of the sinchamber Above the roof is another solid block of concrete, extending to a little below the cellar-line. This gives an indestructible nier resting on rock on the ton of which the columns of the building are set, There has recently been adopted an inpenious method by which the reisson read is removed in that the concests in one continuous mass from the rock-hottom to the top. Work on several enissome is enteried on at the same time.

It is necessary for the men working in the caisson to be able to communicate quickly with the persons outside, and for this purpose a special pipe, extends from the working-chamber to the top of the coiseon shoft a whistle being fitted to its upper end. There is a valve in the lower end of the pipe, and when opened the compressed air tushes up and blows the whistle as it escapes. The number of blasts indicate such things

se: "More air wanted." "Reduce airpressure," "Pull up the bucket," etc. Rearing its graceful contlines high above the surrounding buildings, the tower of the Singer Building-the "Singerborn," as it has come to be call-

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ed-at the corner of Broadway and Lib. crty Street, has become as distinctive a feature of the sky-line of New York as the Egyptian pyramids are of the Valley of the River Nile. The first difficulty which presented itself in laying the foundations for the Singer Tower. and possibly the one requiring the arent aren covered by the thirty exissons compared with the total area of the site. which restricted the space remaining for the hoisting derricks, runways for the delivery of material and removal of waste, the air-compressors, and other machinery used in the work. During the progress of this work of needling up. the walls of the original Singer Building, a beavy and ornate structure at that time more than one hundred and fifty feet high, a during and unusual feet in building was successfully necformed by the contractors the Foundation Company It was at first intended to stop the cuissons at hard-pen, about twenty feet above bed-rock, but when, later, it was decided to go to bed-rock, one of the enisons had already bean completed seven feet below the top of moved, and the crib filled with concrete, This raisson was extended by the daring feat of tunnelling through the intervening space from the nearest cuisson, excavating the hardpan and underlying overhanging, and filling the cavity below the enisson concrete pier, as well as the tunnel, with concrete taken through the tunnel from the adjoining caisson. which, of course, required time and care, for if the entire caisson had been undermined at one time there might have been danger of the great weight of the fifty feet of concrete pier above breaking loose. This feet was successfully accomplished by running a small

drift tunnel five feat high by four fast

wide, to the farthest end of the esisson above and then excavating vertically downward to bed-rock, fifteen feet farther, one section at a time, and filling each section with concrete from the hed-rock up to the caisson above before the next section was exceptated. It was the first and only time that a pneumatic caisson has been undermined

Anchoring a skyscraper is just what was done in the case of the Singer Tower. Fearing that the wind-pressure exerted against this high tower of steel and brick might some day cause it to sway and possibly appropriate the architect and engineers devised a means of securely anchoring the tower to the backbone of the earth. Ten of the conexete piers resting on hed-rock were provided with vertical steel anchorages extending nearly to the bottom, and built into the solid mass of concrete. These were made in such a manner as to utilise the full weight of the pier, estimated maximumly at one million, one hundred and fifty thousand pounds, besides the very large indeterminate friction between the sides of the nier and the earth, which was not counted on, and a maximum uplift of five hundred and forty thousand pounds each, due to wind-pressure, to resist an upward reaction of nine hundred and twenty-five thousand pounds, being the maximum coltabated static land of the column The adhesion of the pier concrete to the steel anchor-rods, assumed at fifty pounds per square inch, was utilized in

designing the anchorage. So securely is the Singer Tower anshored that it would be necessary to exart a force sufficient to real the commons out of the ground before the stability of the building would be endangered and us the cutting edge of the causon was stopped near the top of the hard-pan and the exception then carried through the hurdren from turnty to thirty feet to rock, and the whole space then filled with the hest Portland correct concrete. pier could be lifted the Somewie would have to be broken in two or else the MAGLEAN'S MAGAZINE

hardpan eighty feet below the kerb would have to come up ! This would practically mean lifting all the hardpan off the rock, and all the quicksand and water on top of the hardpan--results which could occur only in the wildest imagination. Anchored as it is to the very innermost recesses of the earth, the

foundations of the Singer Tower would even withstand the severest earthquake made with this cement were all loaded the world has ever known. on two-home trucks it would nake a The total weight of the Singer buildcontinuous line of ten thousand one ing, including the Tower, is figured in bundred and eighty trucks thirty-eight the vicinity of one hundred and sixty- rolles long.

five million pounds, and is carried by fifty-four steel columns resting on and securely fastened to the thirty concrete piers extending ninety feet below the

One hundred and fifty-one thousand five hundred and fifteen bass of rement. weighing ninety pounds each, were used in the foundations. If the concrete

Stead's Journalistic Triumphs

ONE of the most interesting of recent references to William T. Stead appears in the American Review of Reviews from the pen of the editor, Dr. Albert Shaw. Some side lights are thrown on Mr. Stead's journalistic career.

Mr. Stead had begun his journalistic career while still very young. His father was a Congregationalist minister in the north of England, and the family income was too small to give the promising son a university adocation. But his father was able to give him something far better, for he inspired his boy with great intellectual moral, and social ideals. A more easer mentality than that of young Stead could not have been found in the whole realm. His reading was well directed and voluminous his memory was prodictions and a certain amount of schooling sufficed to give some discipline and direction to his

further work of self-education As a means of self-support, while still in his teens he entered a business establishment but constantly wrote for the local press. This writing was so original and strong that it led to his oppointment as editor of a daily paper called the Northern Echo, published at Darlington near Newcoodle-on-Type when he had searcely more than entered upon his majority. This was in 1871, and

his work at Darlington continued for nearly ten years. It was during this time that Mr. Gladstone aroused the conscience of England by his attacks upon Lord Beaconsfield's government for its complacent attitude toward Turkey in the matter of the Bulgarian atrocities. Great leaders in church and state callied shoot Mr. Gladstone and no one wrote on behalf of the persecuted Bulgarian Christians more earnestly and brilliantly than W. T. Stead. His work brought him recognition, and he was recorded as a man with a future. His association with the leaders in this work that supported Russia in her campoion against Turkey, and that brought Mr. Gladstone back into power, led to

his removal to London In 1880, Mr. John Morley, now Lord Morley, became editor of the Pall Mall Genetic, and Mr. Stead was invited to become his assistant editor. Mr. Morley, after two or three years, went into Parliament and save up the editorship. Mr. Stead being appointed to succeed him. Whereupon erest things happened in London journalism Mr. Stead not amorine energy and fertility of resource into his editorial work, and surrounded himself with young men of telent and brilliancy who helped him make the paper the most alert and the most interesting in England, while also leading its contemporaries in intellectual and literary qualities. It was in those days that Mr. Stead's sensational but well-informed work achieved the reconstruction of the British navy. The Poll Moll Gosette led in every field of moral, social, and political progress. It was the apoetle of friendship rather than enmity between England and Russia Its dering exposure of conditions under which young girls were forced into "white slavery" led to the enactment of better laws and to permanent social reforms, although Mr. Stead went to jail for three months on a technical charge resulting from methods used by his assistants to obtain evidence.

Meanwhile Mr. Stead had established interviewing as a feature of London journalism, and he was the most remarkable interviewer yet produced by the modern nerronaner. His interest was so intense his intelligence so alect. and his memory so remarkable, that be could transmute a conversation in which no notes were token into an extended report of elmost flewless nowiracv. As an illustration of his methods at that time a personal incident may be related. The present writer, then a young Western editor, had been spending the greater part of the year of 1888 in England, where his opportunities for observation and study had been due in large part to the friendship of Mr. Bryce-then in Parlisment and now ambassador at Washington-and the late Sir Percy Bunting, editor of the Contemporary Review. Mr. Bryce and Mr. Runting and repeatedly advised the young American that he must know Mr. Stead or the most active and notent netsonality in English journalism, even though, in their opinion, rather selfwilled and prone at times to kick over the traces of the Liberal party, of which they were prominent members. An intraduction to Mr. Stead led to an immediate invitation to spend the night with him in his subsyrban home at Wimbledon. The first impression made by the Pall Mall editor was that of an aetonishing vitality and energy. Though like a whirlwind in cetting the last forms of his afternoon paper to press, he was effective and methodical in suite of the rapidity of his mental and physical movements.

Arriving at Wimbledon in the autumn twillight. Mr. Stend sprang into a swing suspended from the branch of a great tree behind the house, and swang himself violently back and forth till be had somewhat satisfied his need of exereise and fresh air. After dinner he led the visitor into a parration of what had seemed novel and important to an American familiar with the problems of American cities in the new undertakince that were transforming Glascow A great deal had been going on in Glasgow with which the rest of the world has now for twenty years been entching up. But at that time nobody had studied it or written anything about it. And the American editor had spent a numher of weeks in a very minute study of the great Scotch town.

Two or three days later a package of proofs came in the mail to the Americen's London lodgings. Mr. Stead had cost the conversation into the form of on interview on the social reforms of the municipality of Glascow, which was so complete and accurate that only a few corrections were needed. It was so long that it was broken into two parts and appeared in successive numbers of the Pall Mell Gosette

Although editor-in-chief of the naper. Mr. Stead green bis own personal touch to any and every part. He could make brilliant conv more rapidly, perhaps, than anyone else,-eertainly than anyone else in England. He would brook no interference from the owners of the paper, and on that account he gave up the aditorship of the beginning of the year 1890. He had strendy formed the conception of the Review of Reviews. and brought it got at once as an illustrated monthly having its own opinions but also reviewing the world's more significent discussions and presenting a

resume of the more important steps in

the making of contemporary history. It was a successful periodical from the beginning, and Mr. Stead continued to edit it until his death. On the very day of the sinking of the Titonic his penwas busily engaged, and he was presumably writing an article to be mailed back for the next number of the Review

on his arrival in New York. It was upon Mr. Stead's suggestion. and with his help, that the American Review of Reviews was founded by its present editor in the following yearnamely early in 1891 Although wholly independent of each other in method and appearance, there has been close and unbroken co-operation between Mr. Stead's English Review and its American namesake. A great number of invaluable articles from his pen have appeared from time to time in this masssine, written especially to inform American readers about English or European nerronages and affairs.

The Problem of the Unemployed

WRITING in Harper's Magazine, Rohort W. Bruere diarneses some interesting phases of working conditions in large American cities, particularly in New York. The New York State Commission on Employers' Liability and Unemployment, he tells us, two years are made a careful investigation of conditions and upon a hmed basis of fact framed its conclusions, the chief of which is that "unemployment is a nermanent feature of modern industrial life everywhere. In the industrial centres of New York State, at all times of the year in mod times as well as had there are wage-earners, able and willing to work, who cannot secure employ-

This is the great fact which to-day challenges serious attention; for it involves all our social and economic problens-it gauges the social efficiency of our industries, it is fundamental to the physical health of the nation, it is basic to the problems of destitution, the dependency of children, vaccancy, and

Of seven hundred and twenty-three employers who replied to the question. "Are you always able to get all the help you want?" sixty-seven per cent, answered. "Yes." At the same time Eighter ecyce per cent, stated that they got their belp wholly or mainly from workmen who made personal amplication at their

factory defors. In few establishments do they even have to hang out a sign. "Hands Wanted," or blow the whistle, as the canning factories do, to announce that fresh loads of fruit or vegetables have made places for more workers. They have rather to protect themselves from importunities by placards like those one sees outside almost every building in process of construction: "No Cornenters Wanted"-"No Bricklayers Wanted"-"No Steamfitters Wanted"-"No Workmen of any Sort Wanted." "It is apparent," says the Commission "that many workmen must be en-

ing from plant to plant in vain. Of one hundred and seventy-nine trade-union secretories who replied to the question, "Are there at all times of the year some of your members out of work?" fifty-three per cent. answered, "Yes." Only eight per cent said that their members lost no time through unemployment, while twenty-five per cent. replied that their members lost on aversee of three months or more in the year. The reports of the New York State De partment of Labor, covering a period of seven years, show that in ordinary times at least fifteen per cent, of the organized workers of the State are idle during the winter months, while even during October the month of maximum industrial

activity the percentage of unemployment among skilled workers does not

drop below five. During years of panie and industrial depression the limits both of maximum and minimum unemployment rise sharply, and the recorded idle among the best trade unions range from lifteen to more than thirty-

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five per cent. These figures deal entirely with skilled workmen. No comparably accurate data were progurable to show the extent to which the unskilled suffer from worklessness. Such facts, however, as the Commission was able to eather furnish an interesting index to the truth. During 1910 the Free Municipal Lodging House in New York City may shelter to more than thirty-three thousand homeless and penniless men and women, most of whom, though unemployed, were "by no means unemployable." In this same year the Salvation Army had five thousand applicants for work. for only five hundred of whom was it able to find places; and the National Employment Exchange, an agency conducted at great expense by a small group of financiers, found work in sighteen months for only four thousand six bundred and fifty-seven out of anproximately twenty-four thousand ap-

Too much weight is not to be given to these figures; undoubtedly many of the work-hunters registered with more than one agency, and in many cases positions were left unfilled because none of the long list was qualified to meet their special requirements. They do, nevertheless indicate the silt that is seening through the foundations of our

Always it must be remembered that unemployment is not a disease of nanie years which can be met by emergent relief: its evils are not necessarily most serious when the number of unemployed is largest: The important questions are: How many workers do the indeatries of the State normally require? To how many can they give steady employment? and, How many do their fluctuating demands keep in the reserve army

of anymal morkers?

The Rederal course of manufacturers shows that about ten per cent, of the wage-earners of New York State form a reserve to meet the varying monthly demands; that fully one-third of those

who are employed at the husiest times are out of employment, or are compelled to lose time in going from job to job during tthe year. Of 37.194 establishments, only forty per cent, were in operation for the full year; nineteen per cent, lost a month or more, and eight per cent, were shut down half the time. 'Investigations of over four thousand wage-carners' families in the State snys the Commission in its summary, "show that less than half of the hreadwinners have steady work during the

What is the effect of this industrial turbulence upon the stability of our

homes? It has been customary in New York to adont the conclusion of the Sage Foundation, that for an average working-man's family consisting of two adults and three children, or four edults, "an income under eight hundred dollars in New York City is not enough to permit the maintenance of a normal standard: families having from nine laundred to a thousand a year are able in general to get food enough to keep soul and body together, and clothing and shelter enough to meet the reast urgent demands of decency " Because however, seventy-five per cent. of the trade unions under consideration were located in the smaller cities of the State. the Commission conservatively adopted seven hundred dollars as the amount upon which a family "oan barely support itself, provided that it is subject to no extraordinary expenditures by resson of sickness, death, or other untoward

circumstance " The secretaries of two hundred and eleven trade unions reported that if employment had been constant, the aversee income of slightly more than half their members would have risen to a thousand dollars a year, while in only four per cent, would it have seen less than seven hundred doltars. But owing to the inconstant demand for laker the average income actually fell below seven bundpel dollars in trenty-five ner cont. of the membership, and reached a thousand dollars in only fourteen per

These figures are, of course corrected for strikes; they represent normal conditions. Moreover, they deal only with a group of skilled, and therefore welltaid, trades. They leave to the imagination the economic status of the unskilled and casual workers, whose periods of unemployment are longer and more frequent, and who, even if they were employed six days a week the year round at the usual wase, could not earn more than five hundred and fifty dollars! The dock-workers are, perhaps, the most typical of these casual labours. In every eity or town that has shipping by organ. lake, or river, they are to be found. either idling about waiting for a job, or working night and day, leading and unloading vessels. New York City alone has between forty and fifty thousand of them, not more than half of whom are working any one day. What do they do between-whiles? The Municipal Lodging House gives the history of some of them. They wash dishes in a restaurant for a few days; they help to fix up Madison Square Garden for a show; they do huilding-laborers' work for a while; help a team-driver when an extra man is needed; distribute directories and telephone books, and pack and ship roods in a department store during the Christmas season. How shall their families adjust their living to such wagecarnings? Or how long will it take an industrial system that prosupposes a

man to have no family to produce the Of course it may be instly said that the full weight of lost income due to unemployment is not always felt through a lowered standard of living in a workingman's family. When he is gut of a job, his wife goes to work, his children so to work, and in this way the home may be kept together. In city parks and playgrounds, able-hodied men taking

care of baloes and young children while their wives and older children are at work, are common enough. But from the standpoint of the homes and the State's interest, these can hardly be considered satisfactory adjustments. For the children of anemployed or underemployed workers, neglected in their early years because their mothers must go to work, are frequently forced to enter industry, untrained and physically bandicspoed, by way of the first job that offers; and as they grow up they drift out of the "blind alleys" of makeshift occupations, to swell the hosts of casual. unakilled labor

And it isn't as though the unemploy. ed man would rehound into estimable percentability when given a job. One who has listened to the perferved denunrintions of society by the street-corner orntor, whose emotions have been set affame by the sight of the righteens man funsiken and his seed begoing bread, is curiously impressed by the clear echo of the agitator's language in the State

"The unemployed man walks the street in search of work, hopeful at first, but as time goes on becoming more and more discouraged. The old jobs he tocks up bring an uncertain and very insufficient income. His whole life becomes unsteady. From undernourishment and constant anxiety his powersmental, moral, and physical-hegin to dependrate. Soon he becomes unfit for work. The merely unemployed man becomes inefficient, unreliable, good-fornothing, unemployable. His family is demoralized. Pauperism and vagrancy

The two facts which the New York Commission established beyond controversy are that unemployment, and the deterioration, both of individuals and of the State, that was with it, is a normal incident to the industrial life we have so carefully built up; and that like the superintendent in my Middle-Western city we are sitting in completent blindness while this deterioration attucks our most cherished possession—the home.

The British Tar Disappearing

THE deterioration of the personnel on board her trading-ships threatens England's supremacy on the sea says Mr Spencer Campbell in The Fortuightly Kenien Most of the erows in such ships are aliens, and not in sympathy with the British Empire, and on some correione these grows here even mentfeeted a hostile enirit. When you a few years ago, hung in the belance and grave unessiness developed between the United Kingdom and a "certain great power," her cruisers overbauled and searched British merchantmen. One of these the Cheltenham, had but four English seamen. The rest were Germens, and as the secrebers left the steamer the German crew enthusiastically cheered them. This writer pro-

coeds: "The power invested in a contain is very wide, and suppose a collier commanded by an alien at the outbreak of war, there is nothing to prevent him steering into the negrest hostile port and presenting the enemy with a valuable cargo. Multiply a few similar instances add a well-promised mutiny or two remember the facilities for espionage, do not neglect the thousand and one opportunities for morsing or semaphoring false information to a scouting centure and one has the sum total of the damage which could be inflicted on the nation by the presence of alien officers and men under the Red Ensign. One shudders at what might have happened abourd the Cheltenhess had war really been declared. What a bollow fitted, German-manned? mockery 'Rule Britannia' is!"

Other nations, we are told, are more contions, and make every effort to have their ships manned by their own people. even if they begin by employing foreign officers or engineers. Mr. Campbell thus cites the example of Germany:

"It is a matter of common knowledge that Germany has bought many steamers from us second-hand, and it has been the ordinary custom in many cases for the engineering staff, at least, to remain on. We are therefore induced to nicture the said engineers growing grey under the German flag-or possibly stout under the German beer. A pretty ides, no doubt, but doomed, alse! to be shottered ruthlessly. It has been the fixt idea in all German steamship concerns to replace the original staff by German enhetitutes. But there is no needloss horry | Until the German officers have mastered the work, there is no question of the dismissal of the British But when the moment arrives, when the curines run just as smoothly under Teutonic hands, the change is effected. Only a short time ago, one of the leading firms announced in the annual report that every member of the staff, who had come over in their vessels purchased abroad, had now given way to a German successor."

Japan's merchant marine tells the some story-

"At the beginning practically every officer aboutd was British; now only a skipper is to be found on some of the passenger vessels. It will not be long before he too will be a more onic on the tural, nay, inevitable. A country must study first the interests of her own flesh and blood for it is only from her own fiesh and blood that she will get the best results. Something is wanted in England of the spirit which animated the Kaiser's proud vaunt about his vacht, the Meteor-'German-built, German-"Why, then, should our leaders quail

before this retaliation? Our navigators, our engineers, are serving under many a foreign flag, but the time of their service is measured by the time of their usefulness. When their brains have been picked, when the pupil has shown himself the equal of the master, comes the dismissal, to be followed by many a weary day of waiting, until some berth is secured. No mendlin sentimantelity is allowed to sway the indoment of the alien ship-owner, with the natural consequence that their merchant corries is invested with a releast vigor and cobesion sadly lacking in our OTEN "

Mr. Campbell thinks that if the Government were to subsidize merchantships it would solve the problem by enabling ship-owners to pay British wages to British sailors instead of emstarvation pay.

The rule of the American navy to employ none but American citizens on American warshire is cited as an example for England's mercentile new to follow. If this rule is not adopted, we are assured, it will spell rain to the

that Empire is essentially an Empire of onds are powerless."

the sea. It rests upon two supports: the navy in the first instance, the merchant is necessary to the other. If we lose the supremacy of the sea, the ocean which unites and webls our Empire will then divide it-there will be a felling army. der of the parts and eventual dissolution. . . . Whether it is an immutable law of nature that every empire in due course of time must crumble and deploying lasenra, coolies, or "dagoes" at cay, or not, it is certainly a fact that a long period of supremacy breeds a numbing letharuy, a contemptuous selfconfidence, and a marked dislike to facing unplessant details. During the last few years this canker has eaten its way into the British people. We have been granted great things, and it needs a strong and determined effort to "The loss of our mercantile marine awaken to our responsibilities. Otherwill mean nothing else than the de- wise we shall realize the grim truth of struction of the British Empire, for the old saving, 'To help fools, even the

Great Possibilities of Water Power

THE wonderful possibilities of water power as applied to industrial life are reviewed in Scribner's Manusine by Davis B. Rushmore. "Of all the different phases of water power development in this country," he writes, "none have than those in compartion with the Reelemetion Service of the Forley Corernment. The object of this work has been the development of the arid lands of the country into homes for settlers. by supplying the rich soil with sufficrops a valuable industry.

The primary object of the Reclamation Department has been the storage of water and its supply through the canals and ditches to the farms. With the head which is almost alreasy available the possibility for a hydro-electric de-

velopment nepally exists and in most cases this has been a part of the work of the Reclemation Service in its different projects. In most cases the power is developed at the dam site, and in other cases part of it there and part of it flows from the reservoir into the valley where it is to be need for irrigation The electric power generated in this way is largely used for panning in order to reach higher levels than are possible by the natural flow of the water and partly to keep the water from reaching the surface and evenorating load of lighting and miscellaneous power work in the towns through which

the transmission lines pass. Of the many developments of the Reelemetion Service in the different Westere States probably the most interesting, and certainly a representative one,

called Salt River Project is something over sixty miles from Phomix, and about forty miles from Prescott, in a roads had to be built to allow the material for the construction work to be hauled in. Here a lake is formed nearly 30 miles in length, by damming up the water of two streams, and an area of 240,000 acres in the valley around Phoenix is to be irrigated by this water. There is a nower development of some magnitude at the dam, and a number of power-houses at different places below as the same water is used over and over in its fall to the plains where it is used for irrigation. The dam itself is a marvel of engineering construction. It is 284 feet high, and 168 feet thick at the base. Its construction at this most inscressible place was percenpanied by many interesting features of road construction, coment manufacture. etc. The ownership of this great work will pass from the Federal Government to a Water Tuers' Association which is composed of the owners of the land to

Other developments along these lines have taken place in Colorado, Idaho, Kansas, Montana, Nevada, New Mexieo, Oregon, South Dakots, Washington and Wyoming, and many more are

still under consideration

The possibilities of the use of electricity in connection with agricultural work are many, and this is one of the most promising fields of the future. The direct use of electricity for stimulating plant growth is a subject which is being actively investigated at present and with as yet unknown possibilities The development of the electrical side of power transmission is but en-

tering its second decade. From 10,000 volts electrical pressure, in the old Telbride Plant, 145,000 has now been reached. The advance is due to an increased knowledge of electrical arience. terials used for insulation of apparatus and line. The old class telegraph line

is that of Roosevelt Arizona. The so-insulator evolved into a complicated porcelain structure of many netticosts and various forms, and the insulators suddenly cessed to be the limiting feaplace so inaccessible that Government ture in transmission voltage when the suspension or disk type was produced. The old-line construction of wooden poles, eross-arms and pins, has given place to modern pole or tower structure of palvanized steel, which give greater strength, a longer life, and freedom from many causes of interruption. Conper and aluminum, both stranded in the larger sizes are used for the line conductors, as the prevailing price and judgments dictate Where the electrical pressure and wire diameter are so rolated that the electricity is at the point of escaping into the air, the wires become luminous, the glow being distinctly visible in darkness. This is one of the limits to increasing pressure which must be respected especially at the higher eltitudes. On the lines of the Central Power Commony where

> critical point is just reached. The large generators which change the mechanical power of the water wheel into electric energy have increased greatly in size. They are being constructed to-day in steam turbine units of 30,000 horse-nower and for motor wheel service the same canacity is being considered. Such units are economical in cost and in space. In installations where but one power-house supplied the transmission system it was considered good practice to use not less than four units so as to provide for a possible shut-down over one unit in which cose the other could be run overloaded while repairs were made. In modern exeteres with a number of penerating stations, the number and size of units is generally determined by other considerations

they cross the Continental Divide, the

The modern three-phase high voltage power transformer of twenty-thousand horse-power bears slight resemblance to its nigmy angestors. With its giant tank and huge cooling coils, it has become a wonderful niece of apparatus.

The switch for high voltages and large capacities has entirely changed its relative position in importance, magnitude and cost. When a switch is opened under emergency conditions, a flow of energy is interrupted and all of the elements necessary for a powerful exnlosion are at hand. The successful solution of the switching problem for modern power stations has been the result of much careful study and costly

experimenting.

The cost of producing power is not understood by all. In any kind of manufacture we have two classes of charges which make up the cost of the product. The first, known as the fived charges-interest, depreciation, insurance and taxes, is independent of the output. The second, the operating expenses, such as fuel, salaries, repairs, etc., is in some measure directly proportional to the quantity of goods manufactured. If the fuel is free as in a water power, the other items all remain. and the power cost is only fractionally reduced. Again, if, as is often the case per horse-power of capacity is several of our areat future industrial postitimes that of the steam plant, it may bilities,

isoppen that the fixed charges are increwed more than the operating expenses are reduced, and thus the electric power generated by the water actuully costs more than a steam plant When the long and expensive transmission lines and the necessary steam auxiliary stations are included water payer is not necessarily a chean source of supply. In most cases, however, where a sufficient quantity of water is avoilable at all times, hydro-electric

nower is the cheanest in the world. As the supply of fuel becomes exhausted our water powers will naturally enhance in value and we shall become more dependent man them for power nurroses. But a fraction of the available nowers have as yet been developed The present policy of the Federal Govcomment makes it extremely difficult to develop those streams and rivers where some question of mublic land is concerned. It is probable that in the near fiture some ressonable method of Endored and State recordation will be evolved, and the continued developin a water-power plant, the investment ment of our water powers will be one

Humidity: a Friend Inot a Foe

us have been very much to blame. Time and again we have vented our writh mon the demon of discomfort Humidity, which turns one of our best friends. Dr. P. W. Goldsbury, in the Medical and Surgical Journal, demonstrates the importance of humidity on

hygiene. He writes: In the popular mind, only the discomfort felt on hot, close days is associsted with this word. The impression may be gained that humidity is something to be deplored, but, properly speaking, a better term would be sultriness. For this means a high percentage of moisture along with excessive

THERE can be no doubt that most of heat. On days when the temperature is not high, the amount of humidity may be the very cause of the agreeableness of the air. During the summer when the days are hot and dry, the freshness of the morning and the soothing coolness of the evening are enjoyable, not only because the heat is diminished, but also because the air is tempered with a higher proportion of

moisture. If we substitute for the word "humidity" the phrase "moisture in the air" we shall know better what is meant. The term "humidity" is used in two senses: absolute humidity, which refers

to the actual amount of water in the air per cubic foot at a given time; and relasavs:

of water in the air at any time as compared with the total temperature without some form of precipitation such as dew or rain. To quote further from the article under consideration:

If a hested flat in winter be at a temperature of 70 degrees, and the absolute humidity or amount of water held in suspension be the same as in the air outside, where the temperature is only 18 degrees, the relative humidity there will be only one-eighth, or 12½ per ceat, and that only providing our outside air be saturated with moisture, which is offern out the case.

the air ontside, at a temperature of 18 degrees, have an absolute humidity of but half a grain, then its relative humidity will be only 50 per cent. and the sir inside, though having the same absolute humidity may have by reason of its higher temperature, a relative bumidity of only 61/4 per cent. It we reflect that a humidity of from 60 to 75 per cent, is none too much for average conditions of human life, we con realize how for below normal is the air in which most of us are housed during the winter. As a matter of fact, various tests of air in schoolrooms, hosritals and living rooms during the winter time have been made here and there through the country; these show that the humidity often went below 40 per cent., and upon occasion got down below 10 per cent.

Under such conditions indoor sir in winter is very dry and irritating. This is one of the prime causes of chapped bands and purched lips. One of the important problems of modern building construction is that of making indoor conditions more nearly like outdoor as regards humidity. Methods for raising the humidity in buildings are still in the experimental stage. Dr. Goldebury has made various attempts to improve the moisture quality of the air in different rooses. He

When the building was beated by furnace, a dish of water was kept over the receiver. A mustin tin was used for this purpose, as its form presents an exceptionally large surface below for the heat to strike and, therefore, increases evaporation. The muffin tin had to be filled much oftener when cloth was hung over it so that the water was sucked up into the meshes by quaillary force thus increasing the evaporating surface. I have found wet towels or newspapers, too, spread about the room somewhat helpful in moistening the air, but it proved difficult by such means to incresse the humidity above 5 or 10 per cent. This, however, was enough to give a sense of incressed comfort, for our delicate tissues respond to even such slight favoring changes.

Closing the register at night lowers the temperature of the room and, therefore, lessens the amount of moisture required for comfort. Merely in the condition of one's throat in the morning one would find ample warrant for the shatting off of the heat at night.

shutting off of the heat at night.

Under our conditions of indoor life,
we suffer not from too much humidity,
lest rather from too little.



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